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BUSINESS WEEK



soon they can be sold. But until OPA approves prices on new cars (page 15) would be buyers can only took

TWENTY CENTS . PUBLISHED BY THE MCGRAW-HILL PUB TO VOTESTA TO

DUTASSILL OF MICH

"The worst crime against working people is a company which fails to operate at a profit"

A great labor leader made this statement. He knew that unless a company can make money it will be forced out of business—and an idle factory supplies no jobs; a prosperous factory supplies more and more jobs at better and better pay.

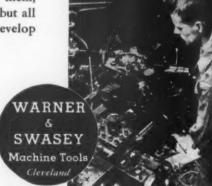
Three groups share equally the much-discussed responsibility for jobs:

1—Government. Its regulations and tax laws must enable companies to save enough money to provide workmen with constantly improved equipment without which this country can never compete in the world-wide competition for trade.

- base

2—Management. It must provide the improved equipment, and honestly share with its workmen the increased earnings which result. 3—Labor. It must use the equipment efficiently because a man can be paid only out of what he produces. Therefore, if he wants to earn more, he must produce more, efficiently—and improved equipment is the only way he can do it.

Government can't legislate jobs, management can't invent them, labor can't force them . . . but all three, working together, can develop them.

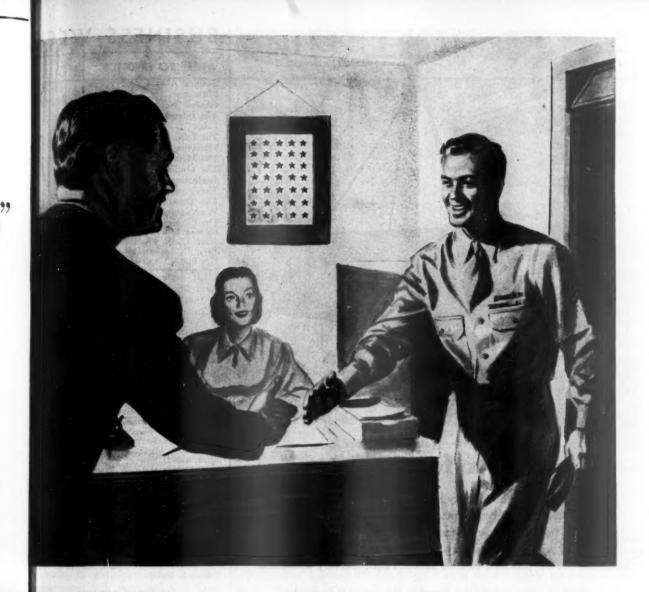


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Here comes a blue star turned into a blue chip

THE sooner those boys step off your service flag (or someone else's) into your business, the sooner 're going to have a new lift, unlike anything you've for years.

mployee training? They're the finished products the greatest program of finding and developing is this world ever saw.

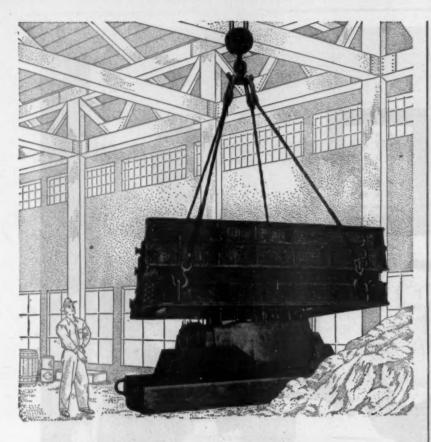
for ale getting a little low around the place? A few hese lads with their eagerness to get back and get ad will snap it up in a hurry.

Discipline a little lax? These boys are the essence of discipline at its best. And they'll keep it, because they know they could not coast on their war jobs—they must progress on their peace jobs.

There are men with practically every skill you could possibly want, and we mean skill. Those skills are good enough to lick the toughest job the world ever saw. Use them to help you lick the business problems ahead.

These men are blue chips.

lished in cooperation with the War Advertising Council with the gratitude and pride all Americans feel for our fighting men
—by The B. F. Goodrich Company.



A pattern for safety.

-not only in the foundry but throughout industryis suggested by the above method of handling a heavy load. Those flexible Yellow Strand Braided Safety Slings are providing increased three-way protection: for experienced personnel . . . the products of their skill . . . tight delivery schedules.

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EERWASHINGTON BULLETIN

WHAT CONGRESS FACES

A Congress that is more concerned out getting men out of uniform than what they will do when they get ome will be back in Washington

ext week. President Truman has laid on conressional desks several measures in-nded to cushion the transition to a Il-blown peacetime economy, but inications are that they will move very owly through the Senate and House. Congressmen intent on speeding up emobilization are not pleased by Truan's warning that continuation of the

mft is a necessary adjunct. But there n't much that they can do about it, part from attaching age and other mitations.

Some politicians find comfort in the ct that the votes of veterans and their milies run into much bigger figures han those that will be lost by extension f the draft. The unpleasant necessity r extending the draft practically dooms eacetime compulsory military training any form, however.

ights Are Brewing

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MBER 85

The "war's over" attitude on Capitol ill presages a lot of wrangling: On the Full Employment Bill: Cur-

nt hearings have defined the issue. e" full employment or merely promise Vill the federal government "guaran-Odds today appear to favor the

A side fight is brewing over public orks. The Budget Bureau this week, S. Parke robably in anticipation of the full mployment bill, suggested that Conress postpone putting up the cash for everal billions of dollars of works, hich have already been authorized, ntil a definite program can be develped coordinating public works with nemployment. A sizable congressional loc intends, however, to press for some arly appropriations to get highway, ood control, and other projects under

> On Unemployment Compensation: ruman's proposal that the federal govmment raise the ante to \$25 for 26 eeks for jobless war workers will set spark to the slumbering states' rights sue. (The states administer, under their ndividual laws, the federally collected ands.) Return of the U. S. Employnent Service to the states is in the same ategory. Truman's extempore promise state governors that this would be one took federal officials by surprise. hey are building a backfire.

On War Surplus Disposal: Congress probably will comply fairly soon with Truman's request for revamping of the 1944 Surplus Property Act to vest responsibility and authority in a single administrator, instead of a board. The Senate successfully fought off this suggestion when the original bill was under consideration, but many members are now convinced that the present setup is a failure.

PROMISED, BUT HOW?

Republicans as well as Democrats are over the barrel on farm policy, since the commitment to support prices for two years after Jan. 1 following the legal end of the war will run through both next year's congressional and the 1948 presidential elections.

The Agriculture Dept. already owns \$1,400,000,000 of farm commodities acquired for lend-lease and price support. Principal current resources are Commodity Credit Corp. balances now to-taling less than \$1,000,000,000. Congress will be asked this session

(1) to swell the CCC bankroll, or (2) to make specific appropriations to support prices, or (3) to accept a substitute plan of farm income payments (BW-Aug.25'45,p21).

Preference of some officials is to take CCC out of the buy-sell price support business, make it strictly a farm loan mechanism, let price supports stand on their own feet through separate appro-

Meanwhile, Secretary Clinton P. Anderson won't get far trying to get military help to foot the bill on prospective losses on current stockpiles. Anderson bases his claim on the ground that agriculture was expanded largely to supply the armed forces.

CONSPICUOUS FALLACY

Army Service Forces officers wonder whether they'll ever hear the last of their now-famous bull in announcing that the Japanese surrender would free 145,000,000 tons of coal within a year.

The figure was obtained by comparing the dollar value of ASF cutbacks with the dollar value of national income in which coal played any part-manufacturing, rail transport, power, etc. The resulting ratio-54%-was applied to the 1944 use of coal which went into the same activities that produced the national income.

Thus, the 145,000,000-ton saving of coal assumed a 54% decrease in railroad use, electric power, steel production, and all the rest, making no provision whatsoever for reconversion.

NWLB'S NEW ROLE

So-called agreement between the Labor Dept. and the National War Labor Board on handling new disputes is a makeshift arrangement which leaves Secretary Lewis Schwellenbach's hands completely free.

The board, or at least a majority, would prefer to process only cases in which it is stipulated that the parties will accept the board's decision. Schwellenbach pledged his Conciliation Service to cooperate in getting such stipulations—up to a certain point. He declines to push disputants into them.

Schwellenbach also declines to with-

hold disputes from NWLB where stipulations are not forthcoming. He insists that President Truman's executive order (BW-Aug.25'45,p15) requires him to certify any dispute that interferes with reconversion or production of military supplies.

NWLB thus is reduced to a voluntary arbitration agency.

RAPPROCHEMENT

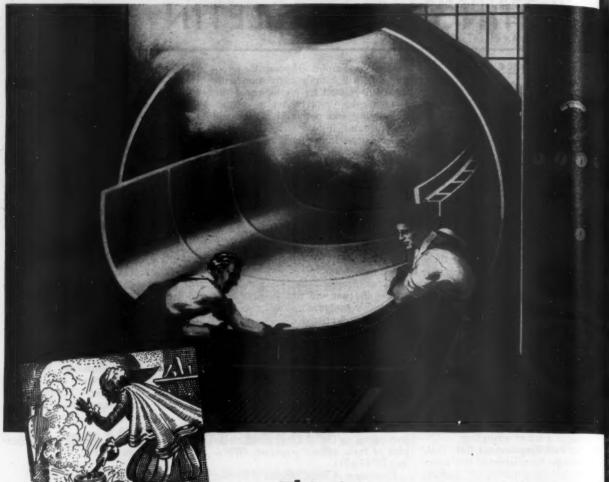
One of the surest portents that John L. Lewis and his miners are on their way back to the A.F.L. was visible for all at the full employment bill hearings Tuesday, where Lewis and the man he expelled from the miners' union eight years ago, A.F.L. President William Green, shook hands and actually beamed upon each other.

Green, who testified first, paid Lewis the courtesy of remaining to hear him address the committee. The miners' chief, always a gallery favorite, packed the hearing room. When he finished, the crowd evaporated.

Lewis could have gone back to the A.F.L. six months ago, but he held out for a seat on the executive council. too. There's no vacancy at the moment, but the first death or resignation means Lewis is elected.

CONTRACT TERMINATION

The machinery for contract termina-tion is well-oiled. Before Japan threw in the sponge, more than 165,000 con-



This is no Alchemist's dream

Alchemists of old, in long, labored attempts, tried vainly to change common ores to precious metals.

While Duramold hasn't changed lead to gold, in essence, Duramold's engineers have achieved the alchemists' goal. They impart new character to common materials.

In light, pliant materials—cloth, paper, glass fiber, wood veneers, cellular rubber and many others—the Duramold process creates a backbone of strength. Laminations of these materials are bonded with thermosetting resins under heat and pressure, frequently using synthetic, lightweight core materials between laminations.

Duramolding gives them new qualities. Their pliancy is gone. They assume rigid strength, molded to precise

specifications in intricate and complexly curved patterns.

Here, then, in an industry now devoted entirely to production for the Air Forces, lies the promise—and the reality—of new materials for builders of peacetime products. Here, as in all Fairchild research and engineering, lies "the touch of tomorrow."

YOUR PRODUCT—AND DURAMOLD. Your need for strong, lightweight materials—for parts impervious to extremes of weather, fungi or corrosives—may well find its answer at Duramold. Fairchild engineers are specialists in exploring the possibilities for new applications of Duramolded materials. For further detailed information about Duramold, send a letter on your business stationery. Write Department 1.



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VASHINGTON BULLETIN (Continued)

cts with a face value of some \$37,-0,000,000 had been canceled, and 0,000,000,000 of this total had been the ded. The War Dept., by far the sest contracting agency, was settling minations in an average of 2½ on the twice as fast as the average months ago.

Financing arrangements are adete. For prompt settlement of V-J tract terminations, it's up to contracto file their claims without de-

The existing method of clearinventories and equipment from minated plants, as required by law thin 60 days), came through the E Day rush with flying colors. Because storage space for government-

ned equipment is tight, the Reconuction Finance Corp. is working up ee system whereby former war conctors would be paid for storing it on spot.

ACANCIES IN THE FTC

The death of Col. Charles H. March Minnesota, member of the Federal ade Commission since 1929, and the piration of the term of Robert E. eer of Ohio give President Truman opportunity to name two Republins to the bipartisan five-man tribunal thin the next few weeks. Col. March ed Aug. 27. The line-up of the comission had stood intact for exactly ten ars. Freer, the freshman, was appinted Aug. 27, 1935.

Some quarters say Truman would ready have reappointed Freer, had he

some quarters say I ruman would ready have reappointed Freer, had he tended to do so, but the FTC act ovides for continuance in office until successor has been nominated and alified, so Freer will carry on in the terim.

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With Truman's emphasis on new ood, and with political exigencies in e background, he is expected to name en who not only will refresh the mewhat fusty commission but who me from states where the appointent of Republicans will tend to garner tes for Democrats.

FTC is currently under fire in Coness, where a reform bill by Rep. B. arroll Reece (R., Tenn.) is pending. carings to be held this fall or winter e expected to air a long list of comaints against the commission's permance in the triple role of prosecutor, dge, and jury. Unlike some of the called "administrative procedure" lls, the Reece measure would not break

up the combination but would subject FTC findings to review by the appellate courts (BW-Mar.24'45,p85).

PIOUS HOPE

Priorities Regulation 32, issued this week by WPB to provide over-all, uniform inventory control, will amount to

little more than a "pious hope" that there will be no hoarding of materials, some WPB men admit. The rule has no requirement for reporting inventories by which WPB could get a line on what actually is being bought, delivered, and held.

Investigation, pressure, and specific directive orders can be brought to bear on violators, of course, but the prob-

More Seats at Cabinet Table?

Government reorganization probably will wind up with the creation of one or more new departments. The number and their makeup will depend finally on President Truman and Congress. Truman wants a tighter organization, run by a "board of directors" which, when it sits down around the cabinet table, represents the whole executive establishment, without crowding.

As it is now, numerous independent agency chiefs, in addition to department heads, attend cabinet meetings more or less regularly. But it's not likely that the whole range of federal activities can be squeezed into the ten regular departments. Consequently, the Budget Bureau is mulling over several plans for a half-dozen or so new departments:

dozen or so new departments:

Public Welfare: This would raise the Federal Security Agency to cabinet status and also include the Women's Bureau and Children's Bureau of the Labor Dept. The Budget Bureau also favors inclusion of the U. S. Employment Service and the Unemployment Compensation Bureau of Social Security, but Secretary of Labor Lewis Schwellenbach has his eye on these, and it's a good bet that he will get both.

Transportation—Communications:
To include Interstate Commerce
Commission, Federal Communications Commission, and Maritime
Commission; and take over from the
Commerce Dept., the Civil Aeronautics Board, Inland Waterways Corp.,
and possibly the Coast & Geodetic
Survey and the Weather Bureau.
This might be reversed, with the
Commerce Dept. becoming the hub
but, in any case, it's doubtful if
Congress will permit the ICC and
FCC to be touched.

Public Works: This would raise the Federal Works Agency to cabinet status, and also include the civilian construction work of the Army Corps of Engineers, and the housing construction work of the National Housing Agency.

Public Enterprises: This would include Tennessee Valley Authority, Bonneville, Grand Coulee, and other projects; possibly the Inland Waterways Corp. if a Transportation Dept. isn't set up. Secretary of the Interior Harold Ickes and others are strenuously opposed.

strenuously opposed.

Loans: This would raise the Federal Loan Agency to cabinet status and expand it to include housing, and most of the government's other lending activities, except those connected with agriculture.

Veterans: Reincarnation of the Veterans Administration giving it political oomph, but the Budget Bureau apparently doesn't favor this change

National Defense: A merger of the armed services indicated by this war's experience.

Administration (or Service): This would include the Civil Service Administration, the Treasury Dept.'s Procurement Division, and numerous other administrative units, but the Budget Bureau wants none of it if the bureau itself is included.

Old-line departments also have their eyes on other departmental units and independent agencies. At the moment it's a chess board on which the Budget Bureau is pushing pieces around in arriving at its recommendations to Truman, and Truman's own hands will be tied by Congress to some extent. Better organization will result eventually, but isn't likely to stop the government's growing pains.



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PRODUCTS INCORPORATED

lem will be to discover violations, with no evidence.

Many men at WPB's working level doubt, however, that there will be much hoarding. They say it's not apparent in several industries which have been free of inventory reporting requirements for some time.

HIDDEN ASSETS?

Secretary of Agriculture Clinton P. Anderson's reorganization of his department along commodity lines is brushing away quite a bit of dust.

Odd lots of commodities—some plentiful, some scarce, such as vitamins, tomato paste, and black pepper—are showing up all over the place with incomplete records of why they were bought, the prices paid for them, or their current condition.

Anderson has put pressure on his new commodity chiefs to round up all stocks for unloading while the domestic demand is still good.

CAPITAL GAINS (AND LOSSES)

Washington will be the home both of the World Bank and of the Monetary Fund. The money will come from this country, and the State Dept. wants to keep an eye on loan negotiations.

Harold Ickes will remain Secretary of the Interior indefinitely because (1) he did not seek to "clarify" his position as did Secretary of the Treasury Henry Morgenthau; (2) President Truman, an ex-senator who remembers Warren Harding, relies on Ickes' integrity in the administration of oil and other natural resources.

Fleet Admiral William D. Leahy, chief of staff to the late President Roosevelt, never had much confidence in the atomic bomb. The Navy is hopeful that it has the answer to the atomic explosive (so long as it is used in bomb form) in a radar-controlled gun capable of bringing down a plane coming within 50,000 ft. of a battleship.

-Business Week's Washington Bureau

THE COVER

Interest in the new cars, like the Oldsmobile exhibited this week on New York's Automobile Row, has been keen but necessarily unsatisfied, for the new cars couldn't be sold till OPA fixed price ceilings. Now the formula has been set (page 15) and it remains only for each manufacturer to compute the dollar-and-cents ceilings for his various models and get OPA's approval.

PRECISION PARTS

THREE STEPS TOWARD VICTORY

TEMB



Fast communication between fighting-units gives the all-important coordination that often means the difference between success and failure. These tiny rotor-shafts are a vital part of an Army generator that develops the "juice" to send the messages back and forth.

Stainless steel bar-stock is centerless-ground to a tolerance of .0005'. Next, the blanks are machined in automatic screw machines, the knur being held to .002" on the outside diameter. The flats are straddle milled and the shaft is completed by thread-grinding the worm.

This is typical of Ace work of small, accurate parts and assemblic involving stamping, machining, heat treating, and grinding. You'll fin Ace facilities and abilities offer many advantages. Send sample, sketch, oblueprint for quotations.

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THREAD GRINDING—Our battery of Ex-Cell-O and J & I. Thread Grinders equips us to give you tolerances of .0001* on all Standard V Threads, Acme and Square Threads, and on single or multiple leads. All sizes up to 5" diameter with threads 8" long, on parts up to 20" between centers.



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HE OUTLOOK

TEMBER 1, 1945



Corporate profits stand to be surprisingly good in 1946. The total isn't likely to fall far short of \$8,000,000,000 after federal taxes and it might quite conceivably top 1944's \$10,000,000,000 by a slight margin.

The higher figure could be registered even though any conservative forecast must allow for a drop from 1944 of 25%-30% before taxes.

Predicting profits can't be an exact science, but there clearly should be some sort of relationship between sales and net before taxes. The Dept. of Commerce has worked out a formula which holds a good deal of promise.

Business Week has used that formula in its estimate of 1946 profits.

The estimate is based on the belief that corporations will have slightly more to sell in 1946 than in 1941 (BW—Aug.18'45,p15). Dollar returns will be well above 1941 due to increased prices.

This should mean a gross national product of \$160,000,000,000 to \$165,000,000,000.

On this basis, total corporate income before taxes should be about \$17,-000,000,000, down \$8,000,000,000 from 1944. (Due to fixed expenses, income drops faster than sales percentagewise.)

But, remember, with Uncle Sam taking such a deep bite through taxes, the tax bill declines almost as fast as income. Thus net after taxes doesn't go down in proportion to earnings before taxes.

Corporate income before taxes of \$17,000,000,000 should leave something more than \$8,000,000,000 clear if the excess-profits tax remains in full force. If that tax is repealed, as is very likely, then 1946 income should be \$10,000,000,000 or even a little bit higher.

Thus we get this picture: Gross national product down 20% from 1944; profits before taxes down 30%; profits after paying normal and excess-profits taxes down 16%; profits after taxes, if the excess-profits tax is repealed, as high as in 1944 or up perhaps as much as 4%.

High wages and relatively low ceiling prices will squeeze a lot of companies when it comes to splitting up 1946 income.

Yet, even if there is some over-all pinch, the national economy has an amazing way of averaging out. If one line of business doesn't get its full share of total profits, some other probably will.

If the free-spending habit results in a 1946 gross national product of \$160,000,000,000 to \$165,000,000,000, then some line such as building contracting or restaurants is apt to make more though the automobile or the refrigerator manufacturer makes less due to price-wage squeezes.

Dividends next year almost certainly will be higher if income after taxes should come up to 1944's \$10,000,000,000 mark.

Wartime dividends have been low due to the need for conserving cash to take care of (1) the unforeseeable, and (2) inevitable reconversion costs. The average for all corporations in 1944 was under 50% of income.

Wall Street looks for a peacetime average between 65% and 75%.

Washington has revised its ideas on the outlook for business in the next few

An interdepartmental committee of economists, who do the deep delving for the reconversion high command, figured (in advance of final victory)

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THE OUTLOOK (Continued)

BUSINESS WEEK SEPTEMBER 1, 1945 that the end of the war in August would mean a decline in gross national product that would drag out for perhaps a year and a half.

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But munitions cutbacks have been much faster and deeper than they expected when they made the estimate. Now they agree that the drop will be sharp—15% to 20%—in the last quarter of this year but that it will be arrested early in 1946.

From there on, the forecasts of the individuals vary. Views run all the way from a mild recovery as the public fills unsatisfied needs to a substantial boom getting under way in the latter part of 1946.

The probable peak in unemployment during the transition from war to peace will be higher than previously expected.

This arises from the speedup in Army and Navy discharges, not from any deterioration in the outlook for business activity.

The Army first said that it would release between 5,000,000 and 5,500,-000 within 12 to 18 months. This week it told Congress it would cut its strength by 5,500,000 (net) by next July 1.

The Navy first said it would release 1,500,000 to 2,500,000 in a year to 18 months. Now the figure is nearly 2,900,000 in a year.

Although the editors of Business Week had expected demobilization "of the maximum number in the minimum time" (BW—Aug.18'45,p9) in putting the transition unemployment peak at 8,000,000, the new timetable casts a different light on the situation.

The top now looks closer to 9,000,000 than 8,000,000. Yet this doesn't mean fewer jobs; it just means more job-seekers.

That construction is still one of the softest spots in the 1946 outlook is emphasized by the presumably expert estimates of the Federal Works Agency (page 21) which places building volume at only \$6,500,000,000.

In 1940, the figure was \$7,000,000,000 and in 1941 it was \$10,800,000,000. Moreover, 1946 costs are materially higher than in 1940 and 1941, making the forecast for 1946 just that much more gloomy in terms of jobs.

If the 1946 gross national product fails to hit \$160,000,000,000 to \$165,000,000,000, construction's slow start will be a major factor.

Yet there are some in the industry who feel FWA's \$1,500,000,000 for private residential construction is much too low. They doubt that lumber, for example, will be the stumbling block it has been pictured.

Crating, boxing, and dunnage have been taking more than 15,000,000,-000 b.ft. a year at peak wartime demand. If this were to fall back to the 1941 level, more than 10,000,000,000 b.ft. would be released.

And 10,000,000,000 b.ft. would be only 20% short of record 1926 use for housing when a million residential units were built.

Demand for chicks has so stimulated commercial hatchery production that this fall may see a surplus rather than the spring and summer shortage. (Ending the Army set-aside this week will serve to accentuate this situation.)

Demand for chicks has continued far beyond the usual season, July output being three times that of July, 1944, and setting a new record.

Hatchery production for the first seven months of this year ran 20% above last; the 1945 gain in chickens raised on farms is put at 8%.

PAGE 10

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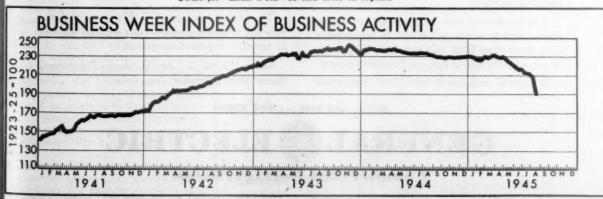
FIGURES OF THE WEEK

	§ Latest Week	Preceding Week	Month Ago	6 Months Ago	Year
THE INDEX (see chart below)	*188.0	†201.1	214.0	231.3	233.1
PRODUCTION					
Steel Ingot Operations (% of capacity)	74.5	69.9	90.7	96.4	96.7
Production of Automobiles and Trucks.	14,880	11,505	16,105	21,015	19,855
Engineering Const. Awards (Eng. News-Rec. 4-week daily av. in thousands)	\$7,990	1\$7,768	\$7,434	\$4,762	\$7,476
Electric Power Output (million kilowatt-hours)	4,116	3,939	4,435	4,474	4,418
Crude Oil (daily average, 1,000 bbls.).	4.892	4,934	4,930	4,778	4,667
Bituminous Coal (daily average, 1,000 tons)	1,504	1,923	1,917	1,931	1,989
TRADE					
Miscellaneous and L.C.L. Carloadings (daily average, 1,000 cars)	**76	82	83	. 82	84
All Other Carloadings (daily average, 1,000 cars)	**54	64	64	48	64
Money in Circulation (Wednesday series, millions)	\$27,506	\$27,351	\$26,926	\$25,652	\$23,047
Department Store Sales (change from same week of preceding year)	-17%	++19%	+14%	+24%	+2%
Business Failures (Dun & Bradstreet, number)	16	5	22	14	22
PRICES (Average for the week)					
Spot Commodity Index (Moody's, Dec. 31, 1931=100)	254.2	253.9	254.7	255.1	250.7
Industrial Raw Materials (U. S. Bureau of Labor Statistics, Aug., 1939=100)	168.0	167.8	166.5	166.4	165.3
Domestic Farm Products (U. S. Bureau of Labor Statistics, Aug., 1939=100)	224.6	224.6	226.7	225.7	223.7
‡Finished Steel Composite (Steel, ton)	\$58.27	\$58.27	\$58.27	\$57.55	\$56.73
\$Scrap Steel Composite (Iron Age, ton)	\$19.17	\$19.17	\$19.17	\$19.17	\$19.17
Copper (electrolytic, Connecticut Valley, lb.)	12.000€	12.000e	12.000€	12.000€	12.000€
‡Wheat (Kansas City, bu.)	\$1.59	\$1.59	\$1.59	\$1.67	\$1.51
\$Sugar (raw, delivered New York, lb.)	3.75¢	3.75¢	3.75¢	3.75¢	3.74€
Cotton (middling, ten designated markets, lb.)	22.28¢	22.24¢	22.53¢	21.70∉	21.58€
‡Wool Tops (New York, lb.)	\$1.330	\$1.330	\$1.330	\$1.330	\$1.330
‡Rubber (ribbed smoked sheets, New York, lb.)	22.50¢	22.50¢	22.50¢	22.50¢	22.50¢
FINANCE					
90 Stocks, Price Index (Standard & Poor's Corp.)	120.3	115.4	115.6	112.6	101.9
Medium Grade Corporate Bond Yield (30 Baa issues, Moody's)	3.27%	3.28%	3.27%	3.39%	3.55%
High Grade Corporate Bond Yield (30 Aaa issues, Moody's)	2.62%	2.61%	2.61%	2.64%	2.71%
Call Loans Renewal Rate, N. Y. Stock Exchange (daily average)	1.00%	1.00%	1.00%	1.00%	1.00%
Prime Commercial Paper, 4-to-6 months, N. Y. City (prevailing rate)	1%	1%	1%	1%	3%
BANKING (Millions of dollars)					
Demand Deposits Adjusted, reporting member banks	37,587	37,444	37,440	36,637	34,400
Total Loans and Investments, reporting member banks	62,680	63,094	63,853	58,753	55,906
Commercial and Agricultural Loans, reporting member banks	5,948	5,949	5,903	6,313	6,006
Securities Loans, reporting member banks	4,326	4,428	4,811	2,977	2,659
U. S. Gov't and Gov't Guaranteed Obligations Held, reporting member banks	46,455	46,770	47,312	44,105	41,875
Other Securities Held, reporting member banks	3,337	3,318	3,201	2,955	2,945
Excess Reserves, all member banks (Wednesday series)	1,050	1,200	1,150	851	822
Total Federal Reserve Credit Outstanding (Wednesday series)	23,142	22,782	22,129	20,003	15,999

Preliminary, week ended August 25th.

† Resised. ‡ Ceiling fixed by government.

** Preliminary, week ended August 18th.





NCE upon a time a big, healthy fish-stuffed to the gills with vitamins and iodine saltsswam right into a fisherman's net.

Days passed. And weeks. Months. And then one fine day that fish appeared on the dinner table at a home far, far inland from the fisherman's wharf. The surprising thing about this story is that the fish on the dinner table still was stuffed to the gills with vitamins and healthful salts, still had that fine, fresh-caught flavor!

You see that fish was lucky enough to be processed, quick frozen and stored in refrigeration equipment planned by technicians in the fish industry with the help of General Electric engineers.

It's one of countless industrial and commercial

applications of refrigeration and air conditioning which are helping-or can help-to improve products or services, to lower production costs, to reduce absenteeism. In your plant, will control of temperature or moisture content improve the product or speed processing? Do you have places where you need local or spot cooling? Or will temperature and humidity control of storage space provide economies in handling or working of raw and finished materials?

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Then take advantage of G-E's specialized experience in temperature-humidity engineering, and its new and improved equipment.

General Electric Co., Air Conditioning Department, Section 5869, Bloomfield, New Jersey.

BUY ... and hold ... WAR BONDS



Commercial Refrigeration

Tune In: The "G-E HOUSE PARTY," every afternoon, Monday through Friday, 4 p. m., E W T, C B S . . . The "G-E ALL-GIRL ORCHESTRA," Sundays, 10 p. m., E W T N B C . . . "THE WORLD TODAY" News, Monday through Friday, 6:45 p. m., E W T, C B S

BUSINESS WEEK

NUMBER 835

SEPTEMBER 1, 1945

* Part Control Control

Auto Price Formula Is Set

Action virtually completes OPA's reconversion framework, but consumer still doesn't know how much his new car will cost. Nation's retailers press fight against cost-absorption policy.

OPA's long-awaited formula for pricing autos, announced this week, practically completed the framework of the reconversion price program.

Consumers, however, are still in the dark as to just how much their favorite car would cost. OPA presented a plan designed to nail down prices of individual models to about their 1942 levels. However, each manufacturer will tailor the formula to his own experience. If that experience calls for an increase in the 1942 factory price, the manufacturer will get it. As Price Administrator Chester Bowles put it, "The facts will tell the story."

• Deep in Fact-Gathering—At midweek, Detroit companies were deep in fact-gathering and it was still a guess as to when the first of them would be ready to lay their cost facts on the OPA price table. But car-hungry consumers had the reconversion formula to dream with. Briefly, it involves three steps:

(1) The manufacturer starts with his January, 1941, base cost per car.

(2) To this he adds the per-unit increase in basic wage rates and materials since that time: The sum equals his "1941 adjusted cost."

(3) To the "adjusted cost" he adds either his own margin of profit in 1936-39, or one-half the industry average for that period, whichever is higher.

• Result: New Ceiling—The result is his new factory ceiling price (box, page 16). There is one exception: If the new ceiling is lower than the 1942 price, the 1942 price stands.

The new-auto price formula couldn't please everybody. Some critics don't like the idea of permitting manufacturers to calculate their own cost increases. Others look for delays because no deadline was set for presenting cost information for OPA approval. Still others predict above-1942 factory prices because increased costs incident to possible changes in specifications can be tacked on to the new ceiling price.

Reasons—OPA had reasons for its action.

There are widely varying degrees of integration among auto manufacturers; Studebaker and Hudson are not nearly so self-sufficient as Ford and General Motors. Shooting for a price formula

on the basis of industry-wide, rather than individual, averages might very well put smaller companies at a disadvantage.

Not all manufacturers are ready to start assembly lines at the same time. The Ford is in quantity production, but most other models are only in pilotplant production, and some are not even at that stage. A pricing requirement based on industry-wide averages would postpone determination of new ceilings, thus handicapping the companies that are ready to go now.

• Relying on Competition—The urge to get cars off drawing boards, on assembly lines, and into dealers' showrooms presumably eliminates the need for a time limit on filing new costs. As for changes in specifications that might bring above-1942 factory prices, competition is relied on to take care of that, too. It is not unlikely that some models may be changed so as to show a net decrease from 1942 costs. When 1942 models came out, manufacturers upped prices between 10% and 19%; hence some of them have elbow room for this kind of trading.

 For Small Newcomers—A few days before OPA handed out the auto-price yardstick, small-volume newcomers to

What to Expect From Atomic Energy

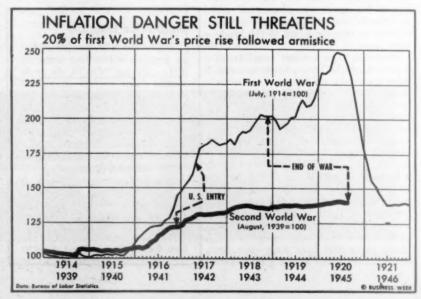
When the awful detonation of the Hiroshima bomb was heard around the world, Business Week set forth the details and the implications of the amazing discoveries in atomic physics which had just edged us all into the atomic age (BW-Aug.11'45,pp15-18; Aug.18.pp21-24).

Now Business Week is glad to be able to present a definitive report on the atom as a new source of energy, prepared by editors of the McGraw-Hill group of business and engineering magazines.

For a nontechnical explanation of atom-smashing by technical specialists, an authoritative appraisal of what atomic power means—and doesn't yet mean—turn to page 57.

the consumer-goods field (manufacturers who don't expect more than \$100,-000 in net sales over the succeeding six months) were given a plan for fast pricing. They can either accept prices in line with the comparable product of an established producer, or set ceilings based on current costs plus the full average peacetime profit margin (1936-39) of the industry they are entering.

Both methods will undoubtedly result in some ceilings above those of competitors. But only small amounts



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STILL FOR FREE FRANCE

In his talks with President Truman and in his stumping tour around the country, Gen. Charles de Gaulle has been presenting the case for France its dire economic need and its dependence on the United States for help in recreating a stable, stabilizing power in western Europe.

of goods will be involved, and competition should soon force the biggest advances into line.

• Easing the Squeezes—Coincident with the plan for new small producers, OPA acted to ease price squeezes on many manufacturers who have been producing their regular lines (iron and steel, chemicals, machinery, some consumer goods) throughout the war. If such a manufacturer shows an over-all loss in his regular operations at a stillundefined "normal" volume, he will be allowed to raise his prices to the breakeven point.

However, these are only variations in a pattern which OPA, with its industry-wide price program for most consumer durable goods, has already woven about the 1942 price level (BW-May19'45, p19). That pattern was strengthened last Saturday, when the Office of Economic Stabilization gave OPA a green light to extend it to the entire recon-

version field.

• Increase Factor-Under this pattern, all reconverting industries are given prices determined by tacking an "increase factor" to their 1941 price. This factor is determined by adding to 1941 production cost the increases in materials prices and basic wage rates for factory workers, and applying the indus-

try's average profit margin in 1936-39.

Suppose—and this is purely a supposition—it cost the domestic mechanical refrigerator industry an average of \$50 to produce its product in 1941, and the average selling price was \$60. Since then, materials and labor have gone up 25%. If the industry had a 1936-39 profit margin of 6%, the "increase factor" would be calculated as follows:

 1941 Production Cost.......\$50.00

 Increase in Materials and Labor. 12.50

 1941 Adjusted Cost......\$62.50

 Add 6% Profit Margin.........3.75

 Ceiling Price..........\$66.25

• Not Inflexible—In this case the "increase factor" works out to around 10%, which means that any firm in the domestic mechanical refrigerator industry could increase its 1941 price by this percentage. The formula is not inflexible. A particular reconverting firm may apply for individual adjustments under three circumstances:

(1) It requires more liberal treatment than the industry-wide price in-

crease factor allows.

(2) It is returning to civilian production before its industry requests, or receives, a price increase factor.

(3) It has no prospect of receiving an industry-wide price factor because its industry as a whole never con-

verted to war work.

• A Choice—Firms expecting gross annual sales of less than \$50,000 are allowed to start with total current production costs, rather than a 1941 base. They then have a choice of adding (1) their own profit margin for 1939, 1940, or 1941, for whichever they have figures, of (2) one-half the industry's average annual profit for 1936-39.

Firms expecting gross annual sales above \$50,000 are permitted either

Auto-Price Example

It cost the XYZ company \$560 to produce a two-door sedan in 1941. During 1936-39, its profit margin came to 4% as against 6%, say, for the industry at large. Since 1941, XYZ company's basic wage rates have gone up \$35 per car and its materials costs \$25. Here is what happens under OPA's reconversion price formula for the automobile industry:

1941 Base Cost......\$560.00 Increase in Basic Wage Rates 35.00 Increase in Materials Cost... 25.00 1941 Adjusted Cost....\$620.00 Add 4% Profit to Adjusted

 their own 1936-39 profit margin, or one-half the industry's during that period, on top of the adjusted 1941 base.

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• How It Worked Out—The first consumer durables priced by OPA under its industry-wide formula allowed increases of 3% in cast aluminum ware, 10% in sheet aluminum, 5.2% in household washers and ironers, and 18% in radio cabinets. The formula came in for a blast from the washer-ironer industry, which told price chief Bowles that the formula is "decidedly unacceptable and incorrect and will incur such losses as to delay or prevent reconversion by this industry."

But this blast was only a breeze in comparison with the feeling over another key point in OPA's reconversion program—cost absorption by dealers.

• Distributors' Margins—During the war, OPA was able to hold retail prices in check by having distributors soak up increased costs; although this reduced margins, volume was so great that distributors' dollar earnings were generally able to equal or exceed their prewar earnings. Bowles, with a recent executive order to fall back on (BW-Aug. 25'45,pl5), is carrying cost-absorption into the reconversion period.

OPA maintains that dealers' margins on sales reached all-time highs in 1942, exceeding 1939 by more than 10%. It also feels that demand for goods in the transition period will be so great that retailers won't need high-powered sales organizations; also they won't have to worry much about credit losses, returns, or markdowns to move merchandise.

• In Self Defense—Last Tuesday, retailers moved up their heavy artillery—120 pages of text, statistics, and charts—and began firing in self defense. In substance, that defense takes the following line:

(1) About 85% of the industry's wartime profits came directly from savings in services that necessarily had to be dropped; but retailers are expectedand have already begun—to resume such

services.

(2) Increases in reported profits, before taxes, for retail corporations were substantially below wartime increases (1939-43) of all other corporate enterprises—268% versus 329%. (For unincorporated retailers, about half the total number, the increase was only 99%.)

(3) So far this year, OPA has allowed 54 general increases in cost of merchandise and all but three of them had to be paid for out of the retailers' pocket-

book.

(4) Over the same period, OPA allowed more than 3,900 special price advances for individual manufacturers, processors, etc., and these must also be paid for by the nation's storekeepers.

uffalo-Reconversion Contrasts-Dallas

Erie County's problem is igated by developed indusleconomy and fact that most rhelp was recruited locally.

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The night of Aug. 14 brought to falo, as it did to every city and town the country, one of the biggest brations in its history.

But Aug. 15 brought to Buffalo a re hangover than almost any other jor city suffered. On that day 35,000 r workers lost their jobs, and by the lof the week the total had climbed 50,000—the same number displaced piecemeal cutbacks extending back fore V-E Day.

Distressed Area—So hard was the w that the War Manpower Commism in Washington promptly listed ffalo as one of nine areas in the entry suffering acute unemployment tress. And so hard was the blow at the state unemployment insurance is doubled within a week.

The brutal statistics of the situan with which Buffalo and the whole agara frontier must contend in the conversion period are these: In 1940 ere were only 269,762 employed in ic County while at the peak of war oduction in the winter of 1943-1944 ere were 394.457

cre' were 394,457.

Qualifying Factors—That does not can that jobs now must be found 125,000 workers if the county is to joy the same standards of industrial alth that it knew before the war, for 1940 more than 60,000 of the unty's 800,000 population (essentially the same today) were regularly the das unemployed. Furthermore, any of the new unemployed actually n't be counted as such—many do not pect to work any more; they're just ling back home.

Estimates are that if 347,174 jobs n be assured, all who want to con-(Continued on page 19)

TALE OF TWO CITIES

Here is the story of "After the Cutbacks" in two cities of intermediate size and fairly typical in their contrasts as American centers of war production.

• In the northeastern quarter of the country—east of the Mississippi and north of the Ohio—lie most of the major prewar industrial centers, and in this region most of the large urban areas are heavily industrial. So the average city in the Northeast has both an industrial past and future. The war has meant industrial growth rather than birth, and reconversion bears promise of a prompt expansion over prewar activity.

• Cities in the rest of the country were primarily nonindustrial before the war, primarily centers of distribution. The war brought huge new factories and vast expansion in factory employment; but reconversion is a blank. In a few cases, the new plants will be immediately changed over; in some others, peacetime facilities will eventually be attracted by the wartime experience; in many, the giant new plants will simply remain dismantled. But in almost all these cities, the cutbacks mean a sharp and rapid return to prewar ways, with no certainty of a richer future.

• Thus in Buffalo, most of the factory hands are still at their jobs, and most of the rest who want postwar work are merely marking time until the assembly lines are changed over. But in Dallas, laid-off workers console themselves with the hope that enough new industry will be drawn to the city to reopen their war-made industrial jobs.

Texas distribution center must build new enterprises if workers drawn to war-created industries are to be absorbed.

The morning after the war ended, 17,000 workers at the Dallas plants of North American Aviation, Inc., awoke with one question on their minds: Can

I get a job in Dallas?

Overnight, peace had canceled all North American's Dallas contracts for P-51 Mustang fighters, C-82 Flying Boxcars, and AT-6 Texan training planes. At the two huge N.A.A. plants 12 mi. west of Dallas, all production had ceased; only watchmen and a few hundred supervisory employees wandered about wondering what would happen to the 67 acres under roof—a cotton field only a few years ago.

• To the Threshold—Transition from a cotton field to one of the nation's largest and most complete aircraft manufacturing operations brought Dallas to the threshold of an industrial era. The question yet to be answered: Can a nonindustrial city like Dallas find peacetime employment for machine skills thousands of workers acquired during

the war?

Behind the immediate concern of North American employees for new jobs lay one simple fact—and one that implies a negative answer to the question of the future unless Dallas industry expands rapidly. In 1939 the entire manufacturing industry in Dallas employed only 16,339 wage earners, including white-collar workers as well as the men in overalls. This was considerably less than half of the peak 38,500 payroll at North American's Dallas plants last year. It was less than one-fifth of the entire city's industrial peak—78,000 at the height of war production.

• What They Do Know-The displaced N.A.A. workers, many of them still



he Curtiss-Wright plant at Buffalo-a symbol of the reconversion employment problem which confronts that city.



CROSS-BORDER SHOPPING BY BOAT

Homeward bound from a "shopper's special" to Learnington, Ontario, Cleveland housewives check with revenue collectors and pay duty on purchases exceeding \$5 (above). Retail meat sales in Canada to U.S. citizens are banned, but housekeepers find it worth their while to make the cross-lake trip to stock up on shoes, clothing, and soap. Some 1,800 board the S. S. Alabama for each thrice-a-week excursion. And Leamington merchants have hired extra help to take care of the customers from over the border.

Dallas

(Continued from page 17)

awed by the vastness of the aircraft industry in its newness to Texas, may find it hard to comprehend that Dallas gave employment to so few industrial workers in peacetime. But they do know that many of the city's principal peacetime industries, such as food processing, textile manufacturing, and apparel and hosiery making, do not require workers with the heavy industrial skills learned at the aircraft factory. They know also that North American has disclaimed any interest in peacetime operations in Dallas.

Anxious to provide new industries to employ these skilled workers, the Dallas Chamber of Commerce took advertising space in national publications to tell how Texas people-many of whom had never even seen a drill press or lathe-became the most efficient workmen in all North American's plants.

• A Record Claimed-N.A.A. at Dallas (92% of the workers were Texans) delivered more than 24,000 airplanes-an average production of 462 planes a month for 52 months. The Texans set what the Dallas C. of C. says is an all-time, all-industry record with delivery of 752 flyaway planes in one

Production on the C-82 Flying Boxcar, the plants' fourth complete toolingup job, had just got under way when the war ended. The Dallas record on B-24 Liberators before they were discontinued cut man-hour costs 30% below the industry average for four-engine bombers in corresponding production brackets.

· Looking for a Big One-Playing up the fact that there were no strikes or lockouts at N.A.A.'s Dallas plants (union contracts but open shop operations), the Dallas C. of C. is trying to attract a big industry to the \$35,000,-000 plant. Assembly of autos, manufacture of refrigerators or other household equipment, and construction of prefabricated houses are among the uses suggested. Skeptics say that the facilities are much too large for these

The Office of Defense Plants has announced that it is ready to talk business with any company that wants to buy or lease the N.A.A. facilities. (North

American has a 90-day option, whi ODP officials believe the compa would waive.) There are two main pla buildings and eleven auxiliary building any one of which would make a f sized factory. Total floor space slightly under 3,000,000 sq. ft., a cipal i stone ch ma there are 125 acres of concrete ram and parking aprons.

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· Another Suggestion-The chamb has suggested to Smaller War Plan Corp. that the N.A.A. plants would a logical place to house a group small companies on an experimen basis. This suggestion didn't evo much enthusiasm at SWPC, one read being that the N.A.A. plants haven been declared surplus yet. It is st possible that the War Dept. mig keep them on a stand-by basis or

storage purposes.
While the C. of C. suggestion SWPC may fall flat, it is expected the Dallas will get several new small fa tories as an outgrowth of N.A.A. train ing. Already the C. of C. has learned of plans of several individuals a groups of former N.A.A. workers to up businesses utilizing their new acquired manufacturing experience Among the projects are manufactu of cigarette lighters, water heaters, a toys, as well as the operation of a m chine shop

• More Diversification?-Chamber of cials are especially interested in fact that several of these manufacts ing enterprises are backed by men w had no previous experience in the dustrial field. To the chamber, t is a hopeful sign, for it may lead more diversification of Dallas busine

Before the war, Dallas was know chiefly as the distribution center of rich agricultural and petroleum regio This distribution activity has ground during the war at the same time th industrial activity has increased sharp Wholesale business in Dallas total 3901.000.000 in 1944, compared wi \$475,000,000 in 1939.

• Branches Reopening-When the started, Dallas boasted 2,900 brand offices or warehouses of national of cerns. This number was trimmed the war reduced merchandise for cit ians, but in the past few months seve companies have reopened their Dall branches.

Such reopenings have created no jobs in Dallas, and there is still a demand for workers in the sent trades. The municipal government bidding for the N.A.A.

• USES Places Some-Many of displaced workers were finding to own jobs, but the majority headed the United States Employment So ice offices. Eight days after the NA shutdown, 12,075 workers had re d with USES and 5,878 had been med to jobs. USES received confirment to jo

chambian the Lockheed Modification ter. Firestone shut down, laying about 900, but Lockheed gave no oation of closing. Many of its 1,500 loyees are engaged in experimental to one read to hell Cases to Cotton Gins—Cancelon of war contracts at several old, blished Dallas industries affected labor situation only slightly. The tray Co. quickly turned from shell sand other ordnance work to cotten gins; John E. Mitchell dropped its nance work and went back to manuaring farm implements; Austin less that the labor situation only slightly. A.A. training laring infinitements; Austin in the large Co. went from bombs to road ding; Haggar Pants Co. from Army orms to civilian clothing.

Outhern Aircraft, which had been contracting on wareast

cors to scontracting on warcraft parts, turned civilian work; and Luscombe Aire Corp. shifted its Dallas plant kly to a new all-metal light plane. aters, a few all-metal light plane. The plane of a mean and the problem—Although many Dallas its reconverting to peacetime protion have announced plans to extend their output and add new lines, a considered doubtful that this intrial growth will be sufficient to the plane of allowing for the several thousand will return to their homes in as nearby or otherwise drop out of ns nearby or otherwise drop out of busine back from 38,500 to 17,500 work-last year, the surplus workers went ther war plants or to nonindustrial Many women went back to sekeeping.

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he continuing tight housing situa-indicates that few of the war kers are leaving the city. bending Continues—The shutdowns

rently had little effect on spendhabits during the first two weeks as maintained its wartime volume. exclusive Neiman-Marcus, Dallas' ed specialty store, war workers gled with debutantes as final pay ks and savings went for hats and a accessories. The cutbacks had to reach the family budget.

Var workers who can't find new readily will find comparatively litatisfaction in unemployment comation under the Texas law. Maxina worker can receive is \$240, or a week for 16 weeks. Contrasted rartime earnings, this offers Texans encouragement to remain idle.

Buffalo

(Continued from page 17)

tinue working will be able to do so, and there will be work for 70,000 servicemen and women now returning at the rate of 1,100 a month.

• A Big Jump, But-The 347,174 figure is a big jump over 1940, but a lot of community planning-and a lot of hard cooperative effort-is being aimed at its achievement. Four fundamental factors in Buffalo are helping out, and speeding recovery:

(1) The Buffalo area isn't dependent on its major war industry-aircraftwhich reached a peak employment of 125,000, now employs only 10,000 to 12,000, and may drop to as few as 5,000 employees. Before the war, the area already had a long-established, diversified industrial history.

(2) The aircraft industry boomed without inflating either population or labor force; there is little or no problem of providing jobs for in-migrants who have no desire to return to their homes.

(3) Labor-management relations and cooperation have been well above par, and labor groups have shown an encouraging ability to get along together with a minimum of C.I.O.-A.F.L. or interunion friction.

(4) A number of major business and industrial establishments have been champing at the bit to get big expansion projects, halted by the war, under way now that restrictions are being lifted. And several new industries want to come in.

• Some Need Men-The importance of the first of these factors is readily apparent. Mass cutbacks in Buffalo have hit particularly its new aircraft industry. Many other industries-such as magnetic metals mining, pottery, paper, lumber and woodworking, steel and

iron, chemical, and radio and electrical products-either have been touched only lightly or are actually in need of workers.

In addition, Buffalo is a railroad cen-ter, can place several hundred more rail workers. Construction has been at a standstill since 1943, and A.F.L. building trades leaders see an immediate need for up to 2,000 men (mostly former union members, for after 1943 practically all workers under 45 years old in the building trades entered war plants) to fill employment rolls shrunk to 1,625 in the county in 1943-44.

• What Is Involved—The shiftover

from war plants to these peacetime jobs will not be overnight, nor will it take care of nearly all of those who held war jobs. Estimates are that 30,000 to 40,000 who took part in Buffalo's war production must shift from industrial jobs-or leave the work force.

But, as a matter of fact, most of those who have been cut back actually came from outside industry. Many were housewives and retired workers, who don't expect postwar employment. Others came from stores, insurance and sales offices, general business and service establishments in Buffalo. Many actually have gone back already; many will go back as filling stations reopen, laundry and milk routes expand again, products become available for salesmen, and stores-now in late summer doldrums-bring personnel to fall and winter high employment levels.

• A Blessing Now-The fact that workers from Erie County were primarily used in filling its booming war plants was a handicap during the war, when business and service trades were critically short of manpower; now it's a blessing, for provisions need not be made for an overexpanded work force.

The immediate edge is being taken from unemployment by state unemployment insurance payments. An estimated



Tackling reconversion problems, a Civic Full Employment Committee for the Buffalo-Niagara area held its second shirtsleeve meeting eight hours before President Truman announced United States victory in the Pacific war.



Although 50,000 persons in Buffalo's war plants were made jobless almost over night, ad appeals for workers continued to appear. These samples are from a single day's issue of the Buffalo Courier-Express.

85% of jobless workers are eligible for the full \$21 weekly checks (the amount paid varies in relation to time worked, and earnings), and fully two thirds of the laid-off workers are losing no time in taking first steps toward claiming that weekly sum.

 Active List Swells—On Aug. 14—the day on which President Truman an-nounced officially that Japan was ready to quit the war-Buffalo's unemployment insurance office had 12,500 active cases (those in which checks were actually being paid out) in its files, and another 12,500 inactive cases (in which, for one technicality or another, no payments were then being made).

One week later harried office staffs hazarded an estimate that 38,000 persons had come to the unemployment insurance office, and 12,500 of these already had been classified on the active list to double it in one week.

• What USES Found-Displaced workers seeking unemployment insurance are sent to the United States Employment Service, which tries to place them in jobs. After rechecking requests for workers to weed out those canceled by cutbacks, USES found on Aug. 16 that it had available 2,400 jobs in heavy industry (for unskilled male labor) and 2,100 jobs in what formerly was classified as "nonessential" industry. In accordance with state unemployment insurance rules, applicants report to these employers for interviews, and then exercise their right to turn down proffered jobs as unsuitable.

The reason is clear: Most of the

4,500 jobs had gone begging for months since they call for hard work and low (55¢ to 75¢-an-hour) pay. With only 40 hours work a week now probable, weekly gross pay offered ranged from \$22 to \$30-from which income tax payments, transportation and lunch costs, and-for women-such items as expendable work hose must be de-ducted. By working, little more-and in instances even less-can be made in actual take-home than the tax-clear \$21 a week which can be had by the simple expedient of a weekly call at the unemployment insurance office.

• Employers Advertise—This fact is acting against employment in the lowpay brackets. Hence, with 50,000 persons nominally jobless and wanting work, plants are advertising for un-skilled workers, stores for clerks, restaurants for waiters and waitresses, hotels for chambermaids, and laundries and service establishments for general

The lure of the unemployment inor gratuity, but as something earned, an increment to frozen war wagesalso is providing a very big question mark to those trying to estimate the number of unemployed who really want jobs. Housewives now freed from war jobs, for instance, will not forego their \$21 weekly benefit even though they do not intend to work after their sixmonth free ride is over.

• Eye-to-Eye With Workers-In Michigan (BW-Aug.18'45,p104) and elsewhere, efforts are being made to weed out all who are not sincere in seeli work, and who are not willing to cept work which pays less than t made in war-boomed jobs. In Buffalo area, however, officials app ently see eye-to-eye with the work on that issue.

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The same cooperative attitude found in general labor-manageme government relations. When the Curtiss-Wright plants laid off m than 20,000 persons, representatives the United Office & Professional Wo ers (C.I.O.) and International Assn. Machinists (A.F.L.), two major unio affected, not only held joint meetings the problems raised, but also were a to sit down with Curtiss-Wright cials to seek out-unsuccessfully-us and means layoffs could be averted. stalled for a 30-day adjustment per

• And All Pitched In-The give a take attitude was even more clear shown when the Chamber of Co merce, and later Buffalo Mayor Jose J. Kelly, named a tripartite Civil F Employment Committee to attend problems of jobs for displaced work Industry, public, and labor represen tives (both C.I.O. and A.F.L.) pitch into the job earnestly and vigorous | Rai

What the committee has according plished is a matter of debate. It possibly has been over-glowing in picture ght a on't l immediate job prospects (predicting eeks. tle unemployment will be seen in Repen days; that a job surplus will exist in ade t months). On the other hand, it has ore w into motion municipal job-creating w projects (viaduct reconstruction, str and sidewalk repairs, initially jobs ate w 100 semiskilled and unskilled worke here r Valuable Time—One thing, hower onths is obvious: The committee by its ant adn't partite activities is buying valuable ti Oper for reconversion planners, holding h possible labor friction while indus encie affs a and business figure out just how my

they can do. r an The full employment committee a enche is working on the job of getting pla and business expansion programs und red du o to \$ way, and cutting red-tape to get a industries to enter Erie County. I ut wo four years Sears-Roebuck has been Bidir tempting to get clearance from the g 0.000 ernment on a million-dollar store and earted in Buffalo; the committee in one we ay we made a chink in the government's asurar straining wall, hopes soon to have ne," 1 clut tumbling.

• Who Gets the Plants?-It also is are-s deavoring to speed decisions on w enefit will be done with the 18 governme owned war plants in the Buffalo Curtiss-Wright, Bell Aircraft, and G esting eral Motors' Chevrolet Division pr ably will take three that they occur International Harvester and West

BUSINESS WEEK . Sept. 1.

ase Electric, not now in the area, are orted interested in getting plants.

Mainly, however, the committee is a o-gap enterprise. While it may dily bring about some re-employment, ectation is that industry itself willmust-do the yeoman's job of stopthe employment toboggan, turn-

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low Unions Are Affected?-From las standpoint, A.F.L.-with the excepn of its machinists at Curtiss-Wright as been hit only lightly, will suffer long-time losses of material propor-ns. C.I.O.'s United Auto Workers I be decimated, but its Steelworkers, ectrical Workers, Rubber Workers, d several smaller unions will not suffer atly, eventually may even show gains sfully—a civilian production swells. C.I.O.'s averted face Workers, young and aggressive, acent per all be cut to shreds, but this union alady is looking into new organizing

give a lds in Erie County to recoup.

ore clea By work groups, skilled workers are of Co pected to be jobless for short times yor Jose ly. They already are being snapped

in competitive fields by reconvert-g plants.
Unskilled workers probably will be Unskilled workers probably will be represent pless for a similar short time (to make a) pitch om for many of them, New York Cenvigorous I Railroad is sending 6,000 Mexican as a componers back home), but the semiskilled. It put ght assembly work their specialty) in pictum on't be assimilated in a matter of electing the seeks.

Repercussions—Meanwhile, cutbacks and themselves felt in banks (75%).

ade themselves felt in banks (75% it has one war bond cash-ins were reported ting we the largest bank in Buffalo last week, on, str.)% was average) and, strangely, in the jobs ate workmen's compensation office, worke here reports of injuries—many of them hower outles old—doubled in the week after onths old-doubled in the week after ant cutbacks. Workers said they adn't had time to report before. Operators of private employment

ding b encies, mostly for service and trades affs and domestic help, were hopeful or an end of five years in which their ittee a enches for prospective workers gathing placed dust. Backlogs of job offers, paying the sum of th

the g 0,000 laid off, with some workers halfeartedly toying with the slogan, "Toone we ay we stand in line for unemployment is usurance-tomorrow it may be a breadhave ne," workers were by no means willing clutch at straws, to worry about a fuare-six months away-when jobless enefits would end.

Predictions of industrial hirings by hen are, to them, ample excuse for alo a nd G esting on state funds after, in many ases, seven-day and sometimes 70-hour,

n pa ork-weeks. Vesti

New Peaks for Construction

FWA expects building to hit \$6,500,000,000 mark in 1946, with private activity returning to normal. After that, steady rise to all-time high of some \$15,000,000,000 by 1950 is predicted.

Construction-the industry of many industries-has been virtually released from its wartime assignment and next year will be building a solid foundation

for peacetime business.

The Federal Works Agency expects the building of homes, stores, factories, farms, office buildings, schools, hospitals, highways, churches, public utilities, etc., to run to \$6,500,000,000 in 1946, some 45% higher than this year's estimate and not far from the total realized in 1940, the nation's last full

peacetime year (chart, page 22).

• All-Time Peak in '42-That estimate is still far from a new record. Pearl Harbor shot new construction to an alltime peak of \$13,500,000,000 in 1942. But only \$2,800,000,000, or 20%, of this total was privately financed; the remaining \$10,700,000,000 represented public funds-for war facilities such as camps, airfields, shipways, aircraft plants, ordnance factories, military high-

ways, Army and Navy hospitals.

All told, publicly financed building activity averaged two-thirds of total new construction during the war years, a direct reversal of the prewar pattern. Next year, the customary relationship probably will be restored; of the \$6,500,-000,000 total looked for, an estimated \$4,350,000,000 will be financed privately while \$2,150,000,000 will rely on public funds.

· More Distant Goal-To that extent, construction will have fulfilled a major prerequisite to its own reconversion. Another-getting volume up to a planned goal of more than \$15,000,000,000 annually-will develop gradually over the

next four or five years.

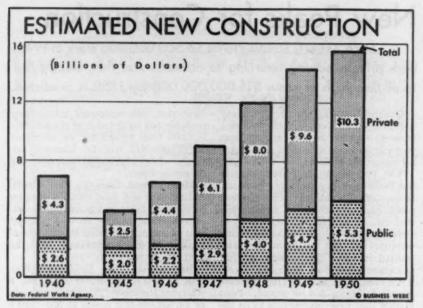
Right now, that \$15,000,000,000plus of new construction looks like a reach for the moon; this year's estimate of \$4,500,000,000 comes to less than a third of the hoped-for goal. True enough, war gave the industry its greatest year, in 1942, but it was only a year. With war construction over the hump, materials and machinery were thereafter channeled into munitions. As a result, construction declined rapidly and, in 1944, ran just about even with the annual average in the three depression years 1931-33 (\$4,000,000,000).

• Fewer Firms-As a corollary, construction organizations were broken up as



AGAIN THE GERMANS MARCH TOWARD RUSSIA

German Army prisoners, some barefoot, some carrying shoes, march down the long road from Vienna toward Russia, where the Soviet plans to use them to speed the giant task of rebuilding its homes and industry. Though there has been no formal settlement concerning manpower reparations, the Soviet, like the other Allied nations, is turning to practical account-prisoner-of-war labor that is at hand and that is so desperately needed.



skilled personnel went into military service, particularly the Navy's construction battalions (Seabees). Informed estimates place the number of building firms now in business at approximately 140,000, a decline of perhaps one-half or two-thirds from the years immediately preceding the war.

Nevertheless, construction has made a good start on its long uphill climb to a record level of peacetime activity. When Japan surrendered, great quantities of basic materials such as steel and lumber were freed. Vast facilities for the manufacturing of necessary components such as enameled ware, plumbing brass, boilers, refrigerators, household appliances, and hardware also became available.

 Removing Controls—In recognition of that fact, the WPB last week eliminated all controls over industrial construction.
 Restrictions still remain on commercial (stores, offices, theaters, garages) and residential building, but these will be essentially temporary.

For one thing, steel is relatively more plentiful than lumber at the moment, and residential building is construction's biggest consumer of lumber. Besides, neither commercial nor residential building has the reconversion "kick" that industrial construction has at this time. Concentrating on manufacturing facilities now will mean more jobs for later on.

• Lumber Rule Eased—Still, the lumber throttleneck is clearing so rapidly that WPB drastically reduced its control over this material last week. From now on, suppliers may sell lumber to anyone so long as there is no interference with the filling of priority orders. Within a short time, perhaps 30 days,

the priority lid on lumber will be off entirely.

In lumber, of course, as in other building materials and components, it will take anywhere from a few weeks to several months to get production going at a smart rate and to stock dealers and warehouses. But the pipeline-filling process isn't going to clamp down on construction. The flow of materials and products will be relatively slow in the earlier stages, but so will building activity. The point is that the materials and components needed at a given time will generally be available.

• An Industry View—The industry-wide Producers' Council recently expressed it this way: "Distribution of building products is expected to keep pace with production, with the result that inventories of building materials dealers should be adequate to meet all demands after Jan. 1."

Aside from the comeback of private financing and a sharp increase in overall activity, most government economists regard construction in 1946 principally as the initial marker in an unbroken rise to \$15,500,000,000 in 1950. In keeping with the customary peacetime relationship, approximately two-thirds of this volume (\$10,250,000,000) would come from private funds and one-third (\$5,250,000,000) from public.

• Method of Calculation—At the 1950 level, the highest ever known, new construction would account for 11% of the nation's estimated income, the so-called normal ratio. This results from averaging the yearly relationship between new construction and national income during the double decade 1920-39; over those years, the ratio varied from 14.2%

in 1927 to 5.7% in 1933. (As an ill tration of wartime dislocations in a industry, WPB and the Commen Dept. estimate that the ratio droppe as low as 2.4% last year.)

It is also notable that, at the loss level, new construction would supplied direct employment to perhaps as man as 3,000,000 persons, as against on 800,000 today.

• Task to Conjure With-Getting on struction up to that unprecedented less—and getting it there in the manus planned—is a task to conjure with.

For example, estimates assume the privately financed construction will leat the way between now and 1950. The publicly financed portion would be concentrated in its logical province highways, flood control projects, hapitals, schools—and would suppleme rather than dominate private activity But if business goes into a tailspin, it wouldn't be long before federal, state and local funds displaced the private leadership.

Again, to move up steadily from a estimated 400,000 new homes in 194 to more than 1,100,000 in 1950-pra tically all of them privately financed-presupposes longer-term loans, low interest rates, changes in building code a re-examination of labor practices an industry organization, as well as a resion of the federal, state, and local in systems.

• Presupposition—It also presuppose that technological advances will have daring enough, and sufficiently continuous, to put housing into a better conpetitive position with other consume durables.

Congress is another question mail Billions of dollars have already becauthorized for highway construction rivers and harbors projects, reclamation work, and public housing. Additionabillions in authorizations are expected for airports, sanitary facilities, civilization hospitals, rural electrification projects and so on. To date, however, Congress has translated only a small portion of these authorizations into actual appropriations.

Because of such factors, any estimate of future construction necessarily call for considerable guessing. As with an informed estimate, however, the Federa Works Agency has weighted its guessa with judgment, knowledge, and expense. Here is its preview of major construction categories for the next fat

• Residential (Nonfarm)—Building of new homes next year will more that double this year's activity. Of the expected total of \$1,675,000,000, about 90% will be privately financed. Overall volume will continue to gain, year by year, hitting a top of \$5,350,000,000 in

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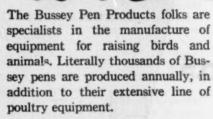
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1950-and 94% of this is expected be built with private funds. At the level, residential construction would ceed the 1925-26 peak by almost • Industrial-In contrast to reside building, construction of manufacture facilities will really be running wide, and handsome next year. With cent lifting of all controls on this of building, the 1946 estimate runs slightly more than \$1,000,000, practically all of it privately finance That comes to some 10% more the peacetime peak of 1920. Appn mately the 1946 rate is expected to vail thereafter.

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• Commercial-Because of continued strictions in this category, building stores, offices, garages, theaters, res rants, etc., will total only \$210,000. this year, well below normal levels. trols will not be a factor in 1946 volume will reach an estimated \$4 000,000. However, this will be far for enough to satisfy the backlog of mand. By 1949, this figure should m than double, coming close to an allhigh at \$1,000,000,000.

• Other Nonresidential-This cates covers schools, hospitals, churches, stitutions, and social and recreation structures. With the notable except of churches, both public and pri funds are involved in each type of struction.

In addition to unfilled demand steadily increasing standard of li will be a driving force in this case. Fr \$330,000,000 this year, the total expected to jump to \$695,000,000 1946, then boom on to unheard peaks, climaxed by an expenditure more than \$2,000,000,000 in 1 This is twice the annual average of twenties.

Interestingly, public funds will exp private in each year—which is the mal relationship in community facilit In 1946, for instance, federal, state, local governments will be account for \$65 out of every \$100 spent for

type of construction.

• Farm-After hitting a wartime low \$160,000,000 in 1943, farm build has been trending upward and sho reach approximately \$330,000,000 n year. Aside from deferred construction this will reflect a generally higher sta ard of living in rural areas-the re of greater mechanization, better to portation, more home appliances, against a high of \$375,000,000 in 19 farm construction is expected to be \$500,000,000 in 1950.

• Public Utility-As deferred needs filled and as new centers of populat spring up, construction of pipeling gas plants, electric light and power p ects, railroads, transit lines, telego and telephone facilities, and radio

BUSINESS WEEK . Sept. I.

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Nevadans are now able to size up the part that gambling plays in their state's economy. Early this year the legislature imposed a 1% tax on the gross revenue of Nevada's 750 gambling establish-ments. Returns from the first quarter of the law's operation show collections totaling \$39,-215.03. This bears out estimates that the tax would yield \$160,-000 a year, and gives Nevadans tangible proof that gambling in their state is at least a \$16,000,-000-a-year business.

The amount collected under the new law represents about 3% of the entire state revenue and about 18% of the estimated general fund income from state taxes. However, the state gets another \$200,000 out of some \$800,000 collected annually by county sheriffs as license taxes on individual games. The rest of that money goes to counties and municipalities.

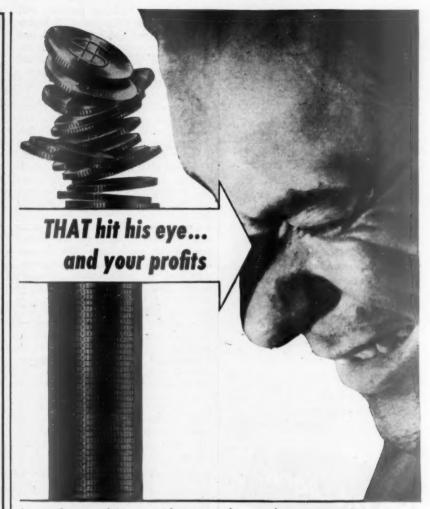
Nevada's tax collections from all sources (exclusive of unemployment fund taxes) last year amounted to \$4,536,724.

The new tax became law without the signature of Gov. E. P. Carville (now U. S. senator). Carville favored higher license fees rather than "a type of tax which the state has avoided in the past,' indicated a hope that the next legislature would act to repeal the law.

television projects will expand. It will take about three years for this group to duplicate the 1928 top of \$1,500,000,-000. After that, new high levels are in sight: \$1,825,000,000 in 1949, almost \$2,000,000,000 in 1950.

• Military and Naval-This is the only major type of construction that will be trending downward. From \$515,000,000 this year, volume is expected to drop sharply to about \$125,000,000 in 1946, then may level out at about the prewar average of \$50,000,000 annually. In 1942, the drive to build camps, hospitals, airfields, and other military and naval installations rocketed this category to \$5,000,000,000-more than the total that was estimated for all construction

· Highway-Reflecting wartime shortages and controls, road building will be at the relatively low level of \$325,000,-000 this year. Recovery will be sharp, however, as illustrated by the estimate of \$750,000,000 for 1946. By 1949 and



Unfortunately, eye accident costs do not always appear in company records. Yet, in almost every plant they are hitting the profit column a substantial blow. For it has been reliably estimated that eye accidents cost approximately \$5 per industrial worker per year.*

Ninety-eight per cent of eye accidents are preventable*—at a cost of only about \$1.50 per man — when you equip your workers with scientifically designed AO Safety Goggles.

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*Report of the Society for the Prevention of Blindness.





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RE-ENGINEERING OLD PRODUCTS,
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ORIGINATING OR DEVELOPING
SPECIAL MACHINES

Contract Manufacturing of metal parts or products, stampings, small steel castings. Contract assembly work. Eliminating hand work. Streamlining production.

 Our informatively illustrated book, "INGENUITY" will tell executives who address me personally, about our facilities.

JOSEPH J. CHENEY



1950, highway building probably will total \$2,000,000,000 a year, 60% higher than the record volume in 1928 and 1929. An important factor in this expectation is that federal grants-in-aid will make possible considerable improvements in state, city, farm-to-market, and other kinds of local roads.

• Airport—With the end of the war, local airport construction, under the guidance of the Civil Aeronautics Administration, will come into its own as a factor in over-all building statistics. The 1946 total is a comparatively modest one, at \$75,000,000, but increases are expected to continue thereafter, resulting in a volume of \$325,000,000 in 1950.

• Conservation—The return of peace will see renewed stress on the protection of our natural resources through measures such as flood control, reclamation, and soil conservation. Although conservation projects are expected to total only \$110,000,000 this year, they will more than double in 1946. Steady increase from that point is expected to bring activity in this category to \$625,000,000 in 1950.

• Sewer and Water-Better living conditions, more new communities, and the trend toward improved sanitary facilities mean more sewer and water projects. The \$225,000,000 outlined for 1946 is about 15% higher than this year's estimate. Subsequent years should see further gains to a level of \$550,000,000 in 1950.

Bid for Pullman

Cleveland group's offer to buy operating company may be answer to problem created by federal court's deadline.

Pullman, Inc., parent company of the Pullman group, got prompt action this week on its most pressing problem, whether or not this speed was caused by the move of its subsidiary, the Pullman Co., to cancel as of next Dec. 31 all operating contracts with the railroad that it serves (BW-Aug.25'45,p38).

• Gets Action—Apparent purpose of this action by the 80-year-old operating subsidiary was to force the hesitant U.S. railroads to make up their mind whether to accept any offers by Pulman, Inc., to sell: physical equipment or stock. Price of either was set at about \$73,000,000. Sale by next Mar. 22 is necessitated by a court order, outcome of an antitrust verdict.

First open offer for the Pullman Ca was for the more than 99% of its stod owned by Pullman, Inc. The bid wa made by a syndicate headed by Otis & Co., Cleveland investment bankers, and including Robert R. Young, board chairman, and Allan P. Kirby, president, of Alleghany Corp. They made their offer to the U. S. District Court & Philadelphia which ordered the sale, and



AIR CONDITIONING TROLLEY RIDERS

With an eye to holding passengers gained when gasoline shortages turned erstwhile automobilists to other modes of travel, Georgia Power Co. has installed in Atlanta what it calls the world's first air-conditioned trackless trolley (BW-Aug.18'45,p73). It's a standard vehicle with the addition on top of a Carrier air conditioner—the same as used in Pullman cars. Whether, now that private automobiles are running, the company will find it worth while to install the equipment on other trolleys will depend on the reaction of the public.

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Post-war radio "handie-talkies" and "walkie-talkies" will enable you to take your radiophone anywhere you go!

"I'm telling Helen about this—right now!"

You're a hundred miles from "nowhere" and you just landed the finest trout in the world! You've simply got to tell your wife (and the boys) back home.

So you turn on your "handie-talkie," signal the nearest "receiving station," get put through long distance and r-r-r-ing!—she's on the other end!

Fantastic? Not at all! For after the war such instruments can be made—about the size of a camera—weighing as little as three pounds—with a range of many miles!

Similar equipment is going to the Allied Armed Forces right now-made possible by miniature electron tubes developed in RCA Laboratories. These miniature tubes are the size of peanuts and acorns! Actually, with these tubes there can be radios the size of a cigarette case or a lady's compact—with "big radio" reception!

Similar research goes into all RCA products. And when you buy an RCA Victor radio, television set or Victrola, you get one of the finest instruments of its kind that science has achieved.

Radio Corporation of America, RCA Building, Radio City, New York 20. Listen to the RCA Show, Sundays, 4:30 P.M., E.W.T. over the NBC Network.



RCA ministure tubes—another example of RCA pioneering in radio and electronics. The "handie-talkie" and smaller radios were made possible through the development of these tubes. Moreover, much valuable space can be saved through their use in larger sets.



RADIO CORPORATION of AMERICA

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OFFICIAL U. S. NAVY PHOTO FROM ACMI

Command Performance ... where the footlights are flames!

Gone are the early post-Pearl Harbor days when flash burns from enemy bombs and shells caused 60 to 65 per cent of the major naval engagement casualties. Today, our fighters protect their skin with "flash cream," an easily applied paste which dries in a thin film, yet gives full protection from flashes of extremely high temperature.

When the Naval Medical Research Institute invited West Disinfecting Company of Long. Island City, N. Y., to cooperate in developing flash cream, only the purpose and desired physical characteristics were known. Composition, chemical ingredients, and means for production were yet to be determined. One of the problems West solved was how to handle the tough-to-pump compound in a sure and continuous flow—by pumping.

As it comes from the finishing rolls, flash cream is very heavy, highly viscous, sets-up stiff in just a few minutes—presents a real pumping problem. That's why no ordinary pump could fill the bill, and why West selected an R & M Moyno to prevent production delays. From the first the Moyno "performed perfectly." No matter how stiff the cream, piping always is kept free and open.

THERE'S ONLY ONE MOYNO

No other pump is like the Moyno. It has no pistons or valves, no high internal turbulence, yet it pumps virtually anything from free-flowing liquids to non-pourable pastes, handles abrasives, passes particles, resists chemical reaction—stands up where other pumps fail.

Ask us for new Book No. 20, "A Turn for the Better in Positive Pumping Without Pulsation." And ask us, too, for literature on electric motors, industrial ventilation, hoists and cranes, and compact speed-change

cranes, and compact speed-change units for converting machines to direct drive. Robbins & Myers, Inc., Springfield, Ohio. In Canada: Robbins & Myers Co. of Canada, Ltd., Brantford, Ontario.





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• Railmen Doubtful—Nobody coullaugh off such a bid by the men who had made good their control over the Van Sweringen rail empire. To man a rail stock specialist, the deal looke like a natural. Rail executives, by nature less adventuresome, were dubiout. If the handful of roads that operate the 605 newest, most modern, lightweight Pullman sleepers should exercise the options to buy this equipment, the remainder of less modern, heavier 6,000 odd sleepers might look less appetizing to Otis, Young, and their syndicate. Separate sale of the lightweight unit would presumably reduce the total price to the syndicate by roughly \$35,000,000.

Pullman officials cautiously said negotiations would tell the story, hinted that other eager purchasers are waiting

Films Reconvert

Hollywood was already of war themes when the Pacific war ended. Industry now seeks to recover foreign markets.

When American troops landed on Leyte, Hollywood motion picture studios laid down an edict: No more war themes for the present.

Dividends from this policy are being counted now-fewer war films to be thrown to the mercies of a box office that is predominantly peace-minded.

• Total Salvage—None of the war films now awaiting release will be scrapped or shelved. The studios are convinced that they will draw. In fact, Warner Bros. has yet to start shooting "Task Force," the celluloid history of U.S. naval aviation. The studio plans to go ahead with it as soon as the Navy will provide planes, personnel, and flattops in California waters.

Waiting in cans are Metro-Goldwyn-Mayer's "They Were Expendable"; Twentieth Century-Fox's "Walk in the Sun," a drama of the Italian front; RKO Radio's "Back to Batan"; Columbia's "Prison Ship"; and United Artists' "Paris Underground."

• Time Dictates—What dictates the cinema capital's cautious approach is that it takes a minimum of six months to produce a high-budget feature (\$1,000,000 and up), even a rushed release.

000,000 and up), even a rushed release.

The emphasis now is on postwar drama dealing with the readjustment of the returning serviceman to civilian life. Four features of this type which will hit the screen first (in six to eight

onths) are Sol Lesser's "Civilian lothes," a remake of a World War ay; RKO Radio's "All Brides Are eautiful" and "They Dream of ome"; and Twentieth Century-Fox's rsion of the Maugham novel, "Razor's

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More Film Released-Last week the Var Production Board brightened the ox-office prospects of these and other eacetime pictures by ending its re-nictions on use of raw film. The stuios, like most other civilian enterprises, ere hit hard by war. Loss of man-ower and drastic curtailment of equipent and materials for set construcons (BW-Jul.25'42,p38) drew many a oan from producers. But the film ortage caused the loudest howls.

Picture studios were limited to 1,-0,000,000 ft. of 35-mm. film a year. he rest of the output went to the med services, lend-lease, and our good eighbors (Mexico, for instance, got

0,000,000 ft. a year). Fewer Prints, Longer Runs-Distribtors had to pull in their horns. Where n the past, they had made as many s 350 to 450 prints of a top feature for lomestic release, during the war they were restricted to 250 prints.

Nobody is wasting tears on the film olony, however. Although prints were imited, they were held for long runs n the first-run theaters, and the cash etum was correspondingly increased.

And the wartime demand for escape entertainment provided a ready-made ox office for even the most mediocre creen fare.

From A to Z-Actually, when restricions were placed on raw film in 1942, the major producers overhauled their ar films production schedules; they were determined not to waste the precious film on anything less than "A" caliber. This surfeited the market with pictures carrying the "A" label (based on production cost). But when these features reached the screen, many of them bore unmis-takable signs of "B" quality—and even Z" quality, as the trade classifies the total flops.

The patient movie-going public tolerated the slump in quality mainly because the "Z" picture often wound up as the tail on a double feature, headed by a reissue of some box-office smash of bygone days. For each of the past four years, Paramount, Metro-Goldwyn-Mayer, and Warner Bros. have averaged

five or six reissues apiece.

• Escape Films Pay Off—On the other hand, the war period brought forth a elease. number of features which surpassed, in ostwar audience appeal, the fondest dreams tment of Hollywood's prognosticators. Among them was "Going My Way?" which won almost a monopoly on Academy awards; "Hitler's Children," a \$208,000 eight



KOAD BUILDING calls for plenty of equipment. It must do rugged work efficiently, economically and safely. That's why you'll find so many engineers specify so many Acco products for construction jobs.

You'll see wire rope made by American Cable and Hazard supplying the muscle for shovels, scoops and other equipment. You'll notice hoists and cranes by Wright handling heavy materials. You'll find chain by the American Chain Division in service for pulling and lifting. You'll see electrodes by Page Steel and Wire in action at welding jobs.

These are only a few of the primary products made by the 15 divisions of ACCO-products vital in war, essential in peace: Chain . Wire Rope . Aircraft Cable . Fence . Welding Wire . Cutting Machines . Castings . Wire . Springs . Bolts & Nuts . Hardness Testers . Hoists & Cranes . Valves,



BUY WAR BONDS

ALLE AMERICAN CHAIN & CABLE . BRIDGEPORT

production which grossed almost \$3,000,000; and the "Lassie" and "Flicka" pictures, simple animal-kid dramas which provided escape from the realities of war.

There has been no visible evidence of a slump in movie patronage since the war ended, although the industry wouldn't be surprised if revenues for the first six months of peace show a slight drop. The film capital is concerned more, at the moment, about recovering its foreign markets than about holding its domestic gains.

about holding its domestic gains.

• Easier Exports—Largely through the meeting of minds achieved when J. Arthur Rank, the British film leader, visited American producers recently

(BW-Jul.21'45,p32), England has a laxed its restrictions on importation of American pictures, but liberated area in Europe (notably the Netherland and Belgium) have thrown up important barriers.

Technologically, Hollywood is in sur prisingly good shape. Camera, electrical, sound, color, and other equip



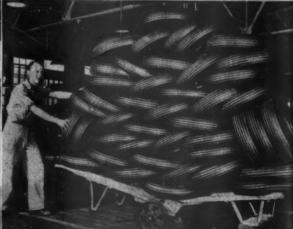


CIVILIAN PRODUCTION BARS GO DOWN

With most of the barricades to civilian production going down, manufacturers—large and small—are rushing into production of long-wished-for items to gladden the heart of both industrialist and consumer. United States Rubber Co. reports that by fall golfers will be able to get some of the new balls (above, left) which hitherto have been reserved for military rehabilitation and recreation camps. A Pittsburgh Toyad Corp. worker (above, right) proves that her company has converted from fins for rockets (in her right hand) to toys, to be ready for Christmas. Coming off one of the assembly lines of the A. C. Gilbert Co. plant, New Haven (right), are electric drills, streamlined and more powerful than prewar ones, for civilian use. At Akron, Ohio, a Goodrich employee (below, right), rolls out the first barrowful of "all-civilian" tires. And (below, left), an employee of Marlin Firearms Co., New Haven, adjusts the triggerguard on the new postwar sporting rifle.







he Hearst Newspapers bout JAPAN

In the 1890's the Hearst Newspapers first pointed out the "Yellow Peril" of Japan to U. S. aims and interests in the Pacific.

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In 1898 the Hearst Newspapers urged the annexation of the Hawaiian Islands by the United States as a defense measure against growing Japanese power in the Pacific.

In 1905 the Hearst Newspapers published the startlingly prophetic cartoon reproduced at left, at the signing of the Treaty of Portsmouth which ended the Russo-Japanese War.

In 1912 the Hearst Newspapers focused national attention on Japanese attempts to colonize Lower California.

In 1916 the Hearst Newspapers warned that Japan had imperialistic

designs on the entire continent of Asia and the islands of the Pacific.

In 1919 the Hearst Newspapers fought the League mandate which handed over the Carolines, strategic Pacific islands, to the Japanese.

In 1921 the Hearst Newspapers opposed the decision of the Washington Disarmament Conference by which our government sacrificed 32 ships of the line.

In 1933 the Hearst Newspapers warned that Japan was taking over industrial control of the Philippines.

In 1941 the Hearst Newspapers, right up to the time that bombs fell on Pearl Harbor, were still hammering for increased naval appropriations and for strengthened fortifications in the Pacific.



Possibly...
the Only
Plastic Part
in the
First Plane



History makes no note of the fact, but the cellulose nitrate collars which the Wright brothers might well have been wearing on that portentuous flight Dec. 17, 1903, constituted the only plastic part in that first plane.

And if they were in there, they were no doubt the product of the company ... founded in 1883 ... which became the Plastics Division of Monsanto Chemical Company.

Since that first flight, planes, plastics ... Monsanto plastics ... have come a long way. Over a thousand plastic parts are now reported on larger naval planes. Monsanto, instead of making only cellulose nitrate, the first plastic materials the world knew, now offers one of the broadest and most versatile groups of plastic materials in the industry.

Among Monsanto's "flying plastics" are the Resinox* resins for laminating wing tabs, fillets, etc., Thalid* for impression molding structural parts, Styramic* HT for vital radio and electronic equipment, Resimene* for non-arcing electrical connectors, Lustron* and Fibestos* for clear, transparent parts, operating equipment, etc. And this is only a beginning.

To keep your business and yourself up to date on Monsanto plastics activities in the great proving ground of the air, ask to have your name placed on Monsanto's plastics mailing list. No obligation, simply address: MONSANTO CHEMICAL COMPANY, Plastics Division, Springfield 2, Massachusetts.

*Reg. U. S. Pat. Off.



ment has been kept in good repair. Much of it could be replaced, of course, but the studios are holding immediate replacements to a minimum, for they know that manufacturers have better, more efficient models in process for early release.

Pushing Skyward

Webb & Knapp's building program includes skyscraper in New York and major edifice on Denver's old Courthouse Square.

Two bold, imaginative steps toward the predicted construction boom have been announced by Webb & Knapp, Inc., New York real estate firm. One is an office skyscraper to be built on the present site of the Marguery Hotel and apartment houses on New York's Park Avenue. The other is a building, its use not yet finally determined, which will replace Denver's old Courthouse Square.

• Ambitious—Both projects are ambitious, even for Webb & Knapp, whose own real estate holdings are already scattered over 20 states, and whose clients include Vincent Astor, Gimbel Bros., Columbia Broadcasting System, and major New York banks. (The firm's most unorthodox operation to date is managing Monte Carlo, New York night club, after tenants found it unprofitable.)

Webb & Knapp has acquired property for close to a dozen similar new building projects in other U. S. cities. Most of them will be financed by Webb & Knapp, but outsiders will be invited to participate, up to 50%, in some.

• On Air Rights—The New York skyscraper will be built in the swank club and residential area just north of Grand Central Terminal, on air rights secured by a 63-year lease from the New York Central Railroad, whose tracks run underneath. A department store will probably occupy the Madison Avenue side of the block-square building, with specialty stores in other ground floor space. Offices will take the upper floors—some in a tower which will rise without setbacks from the sixteenth to thirty-fifth floors.

Innovations include escalators between intercommunicating floors; removable, but sturdy, partitions within offices; interior loading and garage facilities for tenants. Razing the residential buildings now on the site will begin in about a year.

• Litigation in Denver—In Denver, Webb & Knapp is dickering with tenants before drawing blueprints, unperturbed by two suits (denied in lower courts) brought against the city by irate citizens who contend it had no right had sell the park. Tentative plans call for a hotel on one side of the property, a department store on the other, with a building for indoor parking sandwiched between them.

Walls bordering the street will be scalloped to accommodate the +0- to 50-year-old elms that now rim the square. The building will cost about \$3,000, 000, and will be financed within the firm, through a mortgage obtained from an insurance company.

• Highest Bid—Webb & Knapp's \$818,-000 offer for Courthouse Square topped that of Denver bidders.

Mildly surprised at this evidence of eastern interests' faith in their future, Denverites nevertheless have figured out some reasons for it: (1) the town's steady, but not sensational growth; (2) apparent permanence of federal offices now in Denver; (3) future ordnance and other defense activities likely to be located along the base of the Rockies, for safety; (4) prospect of increasing tourist travel; (5) diversion of water from beyond the Continental Divide, which will provide irrigation for new farms, and power and water for urban populations and additional industries.

• It Seemed "Propitious"—Since Webb

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• It Seemed "Propitious"—Since Webb & Knapp spent four months studying Denver before placing the bid, it may have been influenced by some of these factors. But William Zeckendorf, ex-



Left vacant when city and county governments built their present joint building (above, left), Courthouse Square has long provided pleasant strolling grounds for Denver office workers. Recently it was purchased by the New York real estate firm, Webb & Knapp, which plans to build a hotel or department store, or both, but promises to save the trees.

POLLAK WELDING PROCESSES

For the less common metals—highly developed for war production -may improve the quality and usefulness of your afterwar products

call

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4. 1, 1945

Welding of the less common metals, such as Aluminum, Stainless Steel, Monel and Inconel is a highly specialized process. The improvements made in welding techniques at Pollak's before and during the war will soon be available for peacetime production.



ELECTRIC RESISTANCE WELDING ...

This process has been highly developed at Pollak. Equipment is ample for large "runs" and our highly skilled operators are proficient in the several specialized varieties of resistance welding used, such as:

Simple Spot Wolding **Projection Welding** Seam Welding Butt, or Flash Wolding

ELECTRIC WELDING ...

In this work, Pollak has evolved a craftsmanship which fits the right type of arc welding to the product in process, supplementing other Pollak manufacturing operations. The various types of arc welding used here are:

Simple Manual Welding Manual Welding Semi-Automatic Wolding **Fully Automatic Welding**

TORCH WELDING ...

Oxy-acetylene and oxy-hydrogen welding techniques have also undergone many improvements at Pollak's. Particularly is this true of the more difficult alloys. The processes used, similar in form and applicability to arc welding, are:

Manual Welding Semi-Automatic Welding **Automatic** Welding



Inquiries about the Pollak welding facilities as a part of our complete manufacturing processes are welcomed

ARLINGTON, NEW JERSEY

Complete product manufacturing facilities which include, besides welding: Developing - Designing - Machinu Work - Spinning - Stamping - Electrical Work

ON EASY PAYMENTS

Let a Prudential representative show you how you can use life insurance to build a fund for putting your boy or girl through college, and why you should start it when the child is young.

Telephone or write nearest Prudential office



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A mutual life insurance company

HOME OFFICE

NEWARK, NEW JERSEY



MALL Gaseline Engine Chain Saw.

Available in many cutting capacities. Also Pneumatic and Electric models.

Make the most of time and labor with a MALL Gasoline Engine Chain Saw. Cut piling, timbers and planks with speed and accuracy—simplify heavy industrial construction. Powerful 2-cycle gasoline engine starts easily—uses very little fuel. Handle throttle and stall proof clutch facilitate operation. 360 degree index permits horizontal, vertical and any angle cuts. Preumatic models can be used to cut piling under water. Electric chain sharpeners are available.

Write for name of nearest Distributor. Demonstrations can be arranged.

MALL TOOL COMPANY, 7768 South Chicago Ave., Chicago 19, Ill.







First major inroad on New York's swank Park Avenue residential section is a skyscraper office building with which Webb & Knapp will replace the Marguery Hotel and apartment buildings (above). The \$35,000,000 project will include a 35-story tower and will be built over New York Central Railroad tracks.

ecutive vice-president, simply said that the firm "acquired the property at a time when location appeared propitious for development and when it could find sound use occupancy."

The same reasoning prompted acquisitions in Beaumont and Houston, Tex; West Palm Beach, Fla.; Atlanta; Detroit; Washington, D. C.; Flushing, Long Island; and New York.

GUAYULE LOSES BACKER

The War Production Board this week wrote finis to the war-inspired program for expanding guayule processing facilities (BW-Feb.7'42,p68) as a substitute source for once badly needed natural rubber.

With Far East sources for crude rubber opening up once more, guayule has assumed a secondary role, so WPB withdrew its sponsorship of four new processing mills, two each at Bakersfield and Patterson, Calif.

Firestone Tire & Rubber Co., given the contract by Rubber Reserve Co. to build and operate the four mills, has no interest in completing or using them itself.

Guayule now under cultivation will be harvested and processed at two other mills now operating at Salinas and Bakersfield, Calif., but no further government-sponsored plantings will be made.



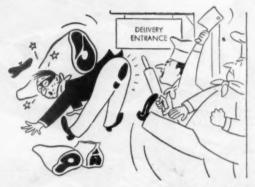
"Steak? Yes, sir! Extra pat of butter? Why, of course!" Remember when you could walk into the Hotel Pennsylvania and make your selection from a wide variety of food superbly prepared by experts? Remember those tantalizing menus enhanced by the magic of outstanding chefs?



2. When the war brought rationing problems into your home, it carried the same problems right into our kitchen. For the Hotel Pennsylvania, just like yourself, was point-rationed—based on the number of people served. Yet, in spite of rationing difficulties, our menus remained inviting and nourishing.



3. Hotel Pennsylvania Research Kitchens hummed with activity. New dishes were devised to meet rationing conditions. When certain foods became scarce, we substituted others equally nutritious and inviting. And, as our kitchen staff shrank due to the war, our oldtimers carried on manfully.



4. At times, due to food shortages, it looked as though our menus would be meager. But, even in emergencies, Hotel Pennsylvania food buyers have always purchased on the open market. Never would we tolerate dealings with the black market. Every bite of food we serve you is Government-inspected.



5. Our chefs and cooks await the day when they can once again give you the food thrill of your life! Imagine thick steaks and chops . . . mountains of butter . . . delectable dishes, prepared to your own taste! Until then, our chefs will do their utmost to bring you fine food—excellently prepared.



YOUR DOLLARS ARE URGENTLY
NEEDED FOR U. S. WAR BONDS

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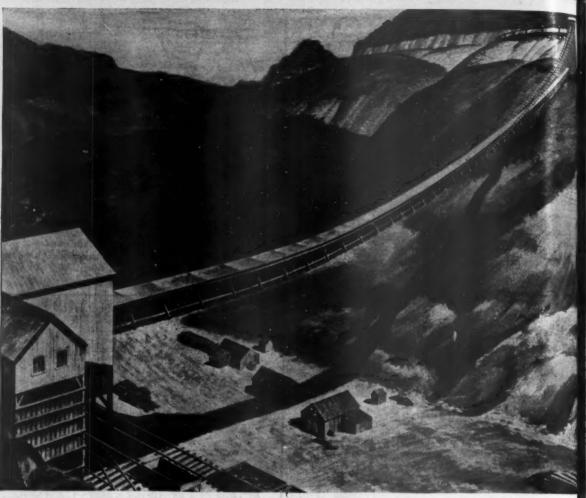
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Air Express.

THROUGH COORDINATED ENGINEERING

Here is an example of how a specially engineered rubber belt conveyor effected important savings in getting out coal quickly. Bridging a valley from mine to preparation plant, this aerial short-cut saves precious hours, increases material output.

In planning this unusual installation, mine engineers, designers of mechanical equipment, and U.S. Rubber engineers worked as a group. The descending, suspended rubber belt conveyor developed by this

three-way team has proved efficient and economical.

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U.S. Rubber belting specialists have become experts in their field—gaining the broadest possible experience, by dove-tailing their efforts with those of the customer's engineering staff on countless installations of every type.

If you have a problem which can be solved by the use of engineered rubber products, our engineers will be glad to work with you.

SERVING THROUGH SCIENCE



WITH ENGINEERED RUBBER PRODUCTS

UNITED STATES RUBBER COMPAN

1230 SIXTH AVENUE · ROCKEFELLER CENTER · NEW YORK 20, N. Y.

Willow Run Bid

First solid offer for big lant is made by Kaiser-Frazer, presumably for production of nedium-priced automobile.

Henry J. Kaiser was back knocking the door of the Reconstruction Fiance Corp. this week.

Together with his partner Joseph W. Frazer in his new auto-making venture, nd with the blessing of the United utomobile Workers (BW-May26'45, 16), he was negotiating with RFC for five-year lease on the big Willow Run lant in Detroit.

Ever since the Ford Motor Co. anounced last spring that it had no eed for the big plant where it made iberator bombers for the government, betroit has been inclined to write the 100,000,000 project off as one of the asualties of the war.

"Not Expendable"—Comments Fraer acidly: "Certainly Willow Run is ot expendable to those companies who o not have as much manufacturing cilities for the production of civilian pods as they need. The Kaiser-Frazer orp, finds itself in that category."

If Kaiser-Frazer succeeds in making deal, other auto companies assume at the plant will be used for the anufacture of the medium-priced razer car; the low-priced Kaiser car has resumably been scheduled for West oast production only. No one, hower, is booking any bets on these prosects. Willow Run is big enough for large-scale, mass-production operation, de the low-priced car is the one that in account for volume output and volume sales.

As a matter of fact, Detroit isn't seriusly worried yet about the entry of e Kaiser-Frazer interests on any basis, espite the fact that their offer on Wilw Run is the only solid one made to e RFC thus far.

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Kaiser Protests—RFC isn't giving any the war properties away, as Henry aiser himself can testify. This week e West Coast industrialist, who complates the creation of a western steel appire by joint operation of RFC's eneva Steel plant at Provo, Utah, d his own mill at Fontana, Calif. W—Jul.21'45,p15), was bitterly comaining about the hard deal which C offered him to finance the reconsion of Fontana to peacetime proction (RW—Aug 25'45 p31)

ction (BW-Aug.25'45,p31).
Kaiser complains that RFC used the l western differential on steel prices its survey to determine the probable mings of Fontana, and on this basis

HOW A DISSTONEER SOLVED THE PROBLEM OF FILING CASE-HARDENED STEEL



A manufacturer had the problem of removing sharp edges from case-hardened propeller shaft flanges. The work was being done on a lathe, first with an abrasive wheel then with emery cloth, pieces of which had

The Disston Carboloy filing tool is designed as a finishing tool for lathe filing of case-hardened steel, brass and bronze. It is single cut on both faces, 34 teeth per inch, and the entire Carboloy surface is one continuous piece, thus eliminating objectionable joints. When one side is completely used the insert may be reversed. After the second surface is worn, a new Carboloy insert may be installed in the original aluminum holder.

to be replaced frequently thus causing considerable delay.

A Disstoneer* suggested the use of the Disston Carboloy filing tool. This tool gave a finish as fine as that secured with emery cloth, there was no wasted time, and lathe speed was stepped up from 450' to 900' per minute. After six weeks of use the file showed no noticeable wear.

Another clear-cut case of Disston leadership



*DISSTOREER—a man who combines the experience of Disston leadership and sound engineering knowledge, to find the right sool for you—to cut metal, to cut wood and other materials—and TO CUT YOUR COST OF PRODUCTION—not only on special work, but on ordinary jobs as well.

Perhaps your cutting problem is different. But whatever it may be there is a Disston tool that will assure utmost efficiency and economy. For instance—

DISSTON NARROW BAND SAWS FOR WOOD



They are made of the same type of steel and with the same care as Disston Wide Band Saws which are standard equipment in leading lumber mills and woodworking plants. The toughness and high flexibility of Disston Narrow Band Saws enable them to withstand the constant bending and straightening encountered on small, high-speed machines. Supplied in many widths and gauges. Write for particulars.

HENRY DISSTON & SONS, INC., 928 Tacony, Philadelphia 35, Pa., U. S. A.

set the terms of the financing deal. He contends that if this differential could be reduced, lowering steel prices as much as \$6 to \$16 a ton, a considerably expanded market could be built. But no price reduction is possible if Fontana's capital debt is maintained at the level that is proposed by RFC, Kaiser argues.

Alcoa Challenged

Reynolds Metals Co. offers to run government-owned plants now operated by Aluminum Co. Would accept lower fees.

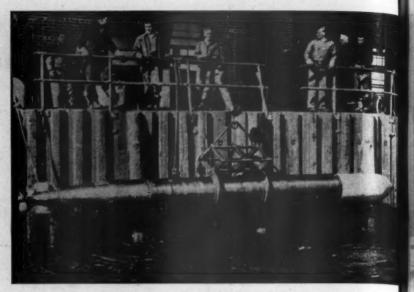
Reynolds Metals Co. this week set itself up as a potent challenger to Aluminum Co. of America as the nation's No. 1 aluminum producer by offering to run government-owned, Alcoa-operated producing and fabricating plants at a lower charge than Alcoa currently is receiving for operating them.

• Stop-Gap Proposal—Offered as a stopgap arrangement to keep the government plants going until they can be sold, the Reynolds proposal to the Surplus Property Board provides that it receive from the government direct costs, plus one-half the annual charge now paid Alcoa as indirect overhead, plus one-half the amount allowed Alcoa (15%) as profit.

Reynolds said it is interested in leasing and ultimately acquiring (1) either the alumina plant at Hurricane Creek, Ark. (capacity 1,555,000,000 lb. annually), or the Baton Rouge (La.) plant (capacity 1,000,000,000 lb.); (2) aluminum reduction plants at Troutdale, Ore. (capacity 141,000,000 lb. of ingot a year), Jones Mill, Ark. (capacity 141,000,000 lb.); and Spokane, Wash. (capacity 216,000,000 lb.); and (3) either the Spokane or the McCook (Chicago) aluminum sheet plant (capacity of each is 24,000,000 lb. per month).

• 663,000,000 Lb. Goal—With its present aluminum reduction capacity of 165,000,000 lb., Reynolds thus would have a total potential output of 663,000,000 lb. of ingot. This compares with Alcoa's capacity of 838,000,000 lb., if all its presently owned potlines continue in operation. The added facilities would also make Reynolds' ingot capacity greater than its sheet and fabricating potential. Thus it would become a seller of ingot, competing with Alcoa, where it formerly has been a buyer.

Favoring Reynolds' offer is the longstanding government antimonopoly policy under which bidders other than Alcoa will receive preference—although this does not definitely disbar Alcoa.



TONGS REPLACE TORPEDO LASSO

At Newport, R. I., the Navy demonstrates how it retrieves torpedoes after practice runs—a story that until recently has been blacked out. The secret is pair of automatic tongs (above) developed during the war by Pittsburgh Heppenstall Co., to replace less efficient lassos. The tongs are suspended on hook running down from a power hoist. As they lower to the water, the automatically unlock; when the hoist starts to pull, the tongs grip their cated Similar tongs have long since been designed for solid peacetime use—to hand sugar sacks, boxes, steel in coils, auto frames, and machinery.

Drain on Sugar

Stocks are expected to drop below safety level when new stamp is validated. Gain in beet yield is expected.

Government sugar experts forecast that consumers' cash-in of sugar stamp No. 38, Sept. 1, will strip grocery shelves of available supplies for weeks to come. The stamp is good for 5 lb. that must last housewives through Dec. 31.

Worse, these officials foresee that by Oct. 1 the stocks of sugar in primary distributors' hands will be far below the 600,000 tons normally regarded as necessary to keep supplies rolling in trade channels.

• Beet Yield Gains—Sugar stocks will increase during the last quarter of the year as new sugar comes from this year's beet harvest, currently calculated to yield 365,000 tons more sugar than last year's 985,000 tons—a 37% increase.

Just the same, sugar will be extremely scarce until new-crop sugar is available from Cuba and other cane-producing areas after the turn of the year. The 1946 Cuban crop is expected to be

somewhat larger than the 3,900,00 tons of raws produced in 1945.

• Deal Pending—The Agriculture De has not as yet negotiated the purcha of 1946-crop Cuban sugar, though Se retary Clinton P. Anderson has sethat Cuba has said that the bulk of the U.S. (BW—Jun.30'45,p32).

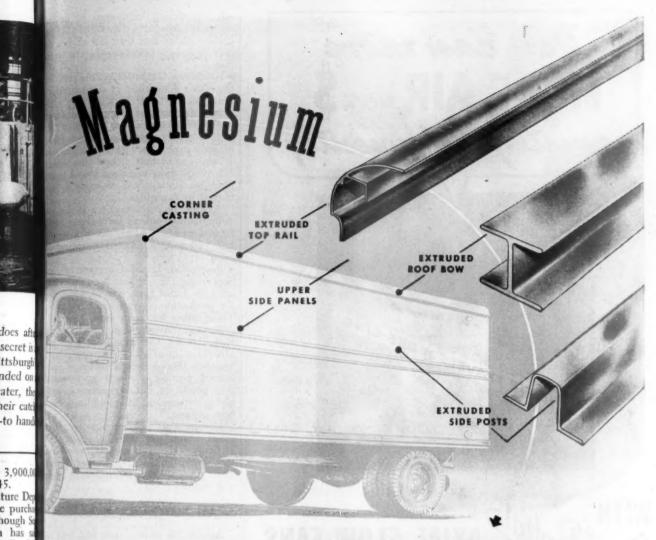
The U.S. offered price is \$3.45 p 100 lb. compared with \$3.10 for it 1945-crop Cuban raws, but it is known whether the residual blackstr will be bought by this government.

If the blackstrap is not purchased the government, the Cubans will ma all the blackstrap they can into me candy, and alcohol (for motor fuel), a sell the remainder to beverage and dustrial alcohol distillers in the U. and other countries. They may a insist on holding some sugar and making cane into high-test invert molasses the same purposes.

• More Cuban Cane—By 1947 it is pected that the Cuban crop may rea a record 6,000,000 tons of raw supprovided the weather is favorable cane. Producers, meanwhile, have to cane the record acreage plowed a ready for 1946 plantings.

ready for 1946 plantings.

So large a 1947 production may be a 1947 pro



... makes a Big Difference in Topside Weight of Truck Bodies

There are so many places where magnesium can save weight! Side posts, roof bows, top rails, and other extruded shapes, clip angles, upper side panels, roof sheeting and corner castings. Many more applications for magnesium may come to light when talking it over with our engineers.

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Savings of around half a ton on a single job can be accomplished by designers who think in terms of magnesium. They know that lighter weight means higher efficiency, lower operating costs and greater payloads.

Call on us to assist you in employing the weight-saving properties of magnesium to best advantage. Write to Aluminum Company of America, Sales Agent for Mazlo Magnesium Products, 1711 Gulf Building, Pittsburgh 19, Pennsylvania.



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BUFFALO FORGE COMPANY

458 BROADWAY, BUFFALO, N. Y.

Canadian Blower & Forge Co., Ltd., Kitchener, Ont.

other producing areas—even in excess of world demand at that time. The Cubans realize that their last chance to eash in on high prices may be the 1946 erop.

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• Increasing Output—The increase in this year's domestic beet sugar production may be larger than current estimates, if processors can get the labor and materials needed to Steffenize the 1945 crop beet molasses for the recovery of additional sugar. (Steffenization is a lime precipitation process that yields 5% to 6% more sugar per ton of beets after the initial yield of sugar is extracted by centrifuge.)

Another beet-recovery step is the socalled barium process for treating Steffenized molasses. This yields a small but high-cost, additional quantity of

• Restriction Lifted-Government orders during the war held back molasses, after the initial extracting of sugar, for the production of yeast and citric acid. These orders have now been canceled.

Some government sugar experts think that it is too late now to arrange for Steffenization of all of this year's beet molasses, though some recovery is considered possible through government price incentives, and cooperation in supplying the required labor and heavy tonnage of lime.

Government technologists say that yeast makers can use the residue of Steffenized molasses equally as well as the whole molasses, but they don't know as yet whether this is true of citric acid manufacture.

SCAN AUTO CRASH RATES

Automobile owners soon will find at least one fly in the unrationed gasoline—higher collision insurance rates.

The National Bureau of Casualty & Surety Underwriters, which scaled down its bodily injury and property damage rates soon after the start of gas rationing (BW-Oct.31'42,p89), now is busy working out a new rate structure. When the revised rates take effect, they will put automobile liability insurance rates back on something like their prewar footing.

Since gasoline rationing began, the underwriters have been using a simplified classification system for bodily injury and property damage policies and have allowed a flat 10% cut in the old base rate. In addition, bodily injury rates have been cut 20% for A card holders, 10% for B cards. There has been some grumbling about the wartime rates among the big insurance companies, which contend that in spite of lighter traffic and slower driving speeds the reduction in rates was bigger than the reduction in accidents.

More Air Controls

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Examiners suggest that Civil Aeronautics Board put nonscheduled transport service under federal registration.

A carefully considered plan to permit the growth of the air transportation activities of the fixed-base operator, but with a restraining hand to restrict competition with the big trunk-line carriers, has been suggested to the Civil Aeronautics Board by two of its examiners.

• CAB Control Coming—The report is a step in the investigation of nonscheduled air services ordered by CAB in July, 1944. As such, it is being studied closely throughout the air transport industry for a hint of the line the board may pursue in its regulation of this type of operator.

Such regulation appears inevitable. A board action of Dec. 7, 1938, exempted nonscheduled air transport service from economic regulation. The investigation was started to determine whether and to what extent regulation is needed. Safety rules for nonscheduled air carriers have been under consideration by the board and Civil Aeronautics Administration since 1940. The war held them up until recently, but proposed regulations to provide for issuance of operating certificates and establish operations rules just recently were submitted to the industry for comment.

• Would End Exemption—In their report on the economic investigation, the examiners recommended termination of the existing exemption of nonscheduled service and substitution of a new order to classify fixed-base operators and require their registration with CAB. At the same time, they would narrow the distinction between scheduled and nonscheduled operation, in a move that would permit the fixed-base operator to conduct, without a certificate of convenience and necessity, regular air service, on schedules of desired frequency, between cities not on a certificated route.

To discourage development of services paralleling certificated routes, such trips would be restricted to a "casual, occasional, and infrequent basis," with an arbitrary top of ten a month suggested as the limit.

No Threat to Airlines—After decrying

• No Threat to Airlines—After decrying the lack of data which might permit accurate appraisal of nonscheduled air transportation, CAB's examiners emphasized that "no one, not even the advocates of the greatest amount of economic regulation, such as the Air Engineers,

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HELP!

This is about toy balloons and

club soda . . . mixed with imagination.

¶ A toy manufacturer mused over our Soda King

Super-Chargers. You know . . . those little cartridges that shoot carbon dioxide into plain water to make soda. I Inspiration! Why not fill the cartridges with helium, use 'em to make his balloons fly? He did. And the balloons did. I Now we don't think you want to inflate balloons. Our point is that we've developed many interesting devices to do certain jobs. I They could do other jobs. What jobs? You tell us! I We're using gasesunder-pressure to inflate life rafts . . . to whip cream . . . to operate aircraft brakes in emergencies . . . to power toy jet-planes . . . to detect and clear stoppages in jammed machine guns. I By a stretch of the imagination—call it creative engineering—you might find here a solution to a problem of yours. I We'll be glad to

Just drop a line to:

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stretch our own elastic imagination to meet

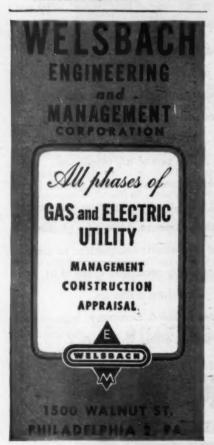


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PHOTOCOPY EQUIPMENT



Transport Assn. and some of the existing air carriers, advanced the claim that the volume of business heretofore done on a nonscheduled basis has been of such proportion or character that it constituted a threat to the economic stability of the existing system."

The fixed-base operators contend, rather, that they have not competed with existing carriers and that their future type of service will complement trunk-line services by providing connections with off-line points (BW-Mar. 24'45,p52).

Air Fare vs. Rail

New passenger rates put plane ticket on many important routes below first-class train, plus lower berth, charges.

Domestic airlines, nudging the railroads a little closer in competition, have cut their passenger fares to an average of 41¢ a mile, a rate that on many important routes put the price of a plane ticket below the cost of first-class

rail travel plus lower berth.

Now in Effect—The latest reduction was initiated by American Airlines. Other transcontinentals joined and smaller lines followed suit, with the exception of two, Delta and Mid-Continent, already well below the former rate of 5¢ a mile. The reductions went

into effect Aug. 20.
It is doubtful, however, that the airlines will make much of the cuts pub-licly until they have completed their part in troop movements and until priorities are eased.

Comparison of the new air fares with rail (first class, plus lower berth) shows that between New York and Los Angeles the plane fare is \$119.10, railroad fare (plus lower berth) \$124.72. Between New York and Chicago the comparative figures are \$33.65 and \$36.93; between Chicago and Kansas City, \$18.85 and \$18.66; between Miami and New York, \$56.65 and \$56.84; and between Denver and Washington, \$69.55

• 45¢ a Ton-Mile-The new passenger fare, on the basis of 200 lb. per passenger, including baggage, corresponds to 45¢ a ton-mile, the same rate as that proposed by the Civil Aeronautics Board for mail transportation by the Big Four air carriers-American, Eastern Air Lines, Transcontinental & Western Air, and United Air Lines.

Last January the board directed these lines to show cause why their mail rates should not be reduced from the present 60¢ to 32¢ per ton-mile (BW-Jan.

Coming Attraction

Leo Seltzer, roller bunion impresario (he runs skate derbies in 56 cities), already owned the old. stone Armory at 16th St. and Michigan Ave., Chicago, a year ago when he organized a syndicate that paid approximately a song for a neighboring white ele-phant, the Coliseum.

Chicago's Coliseum in its halfcentury has housed many a superstupendous attraction from grand opera to circuses. Seltzer planned his "Alaskan Stampede" last summer to outglamor the old-timers, but it missed the box office and failed to lighten the hearts of the real estate owners.

Now he has another terrific idea to make him the Barnum of Business. This is the nation's "first, biggest, only" Products of Tomorrow Exposition. Tentative opening is set for April, duration 90 days. Seltzer blithely plans a 90day stand each year, with 500 exhibits of consumer and industrial goods to attract some 3,000,000 visitors.

The Seltzer press department is awaiting formation of a not-forprofit corporation to operate the big show, plow back profits into scholarships for deserving young designers and engineers, and rent both Armory and Coliseum.

20'45,p42), but shortly before the passenger fare reduction was due, the board revised the proposed mail rate upward to 45¢.

The revision was attributed officially to rapidly changing war and equipment conditions, but some airline sources felt that it may also have been affected by the willingness of the lines to cut their passenger fares.

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DESIGNS NEW PLANE

American Airlines is working with aircraft manufacturers to produce a new plane designed for maximum efficiency and flexibility on routes and feeder lines requiring comparatively short haus and frequent stops.

Specifications have been submitted to several manufacturers asking delivery dates and prices on 25 to 100 such aircraft. It is estimated that the planes will cost around \$200,000 each.

The design envisions loading between the extremes of 30 passengers and a cargo of 500 lb. and 20 passengers and a cargo of 2,500 lb. Minimum pay load will be 6,500 lb., with a range of

ANY SMOKESTACKS TO PAINT?

The tricky job of painting high smokestacks is one of many suggested to us for helicopters to handle. All that would be needed is a hose and nozzle leading from a paint tank inside the fuselage, operating while the aircraft leisurely circles the stack from top to bottom.

An apple-grower writes us, outlining the possible advantages of helicopters to dust his orchards.

A South American government would like a fleet of helicopters, in order to annihilate with sprays the swarms of locusts which now destroy valuable crops.

Ranches want helicopters for such work as taking cattle censuses on their vast ranges—dropping salt for their grazing stock—delivering fresh grub to distant round-up crews in rough country.

Hundreds of business executives have written to us here at Kellett Aircraft, to point out ways in which they think postwar helicopters might be useful. Questions of weight, range, cost and mechanical reliability make some of those ideas impossible to execute at the present stage of helicopter progress.

However, the number and diversity of these proposals impress us with the future possibilities of an aircraft which can hover or take off from, and land vertically in, any area large enough to permit the sweep of its revolving rotor blades.

We continue our part of the job as designers and engineers, confident that, with further development of helicopter types, American businessmen will determine many applications in transport and industry where only the helicopter can serve to cut costs, give dependable service and make work more productive. In consultation with such executives, our development program is taking shape today.

Kellett Aircraft Corporation, Upper Darby (Philadelphia), Pennsylvania.

*KELLETT HELICOPTERS *

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CLARE "Custom-Built" RELAYS

In these Pan-American ships of tomorrow . . . now being built . . . you will travel swiftly, comfortably and safely.

Important to their safety is the radio and radar equipment of which Clare "Custom-Built" Relays are important components. Radio beams will guide them to their destination, radio will keep them in touch with airports, and radar will keep pilots informed as to location regardless of weather.

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CLARE RELAYS

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700 mi. cruising at 275 m.p.h. at 10,000 ft. against a ten-mile headwind.

Such a ship would complement the present 21-passenger Douglas DC-3s and the forthcoming DC-4s and DC-6s, the latter having a capacity of 55 passenger and speed of 334 m.p.h. for transcontinental or transcoean runs.

Standards of passenger comfort are those of the DC-3, with a buffet, storage compartment, luggage racks. Basically the design does not include pressurized cabins, but the airline has asked submission of data on an alternate design including sea-level pressure at 8,000 ft. and summer cooling.

BUSHELS FOR DISTILLERS

The Dept. of Agriculture eased up on the distillers this week, allowing them 3,000,000 bu. of grain-per month for the rest of the year. This marked an increase of 500,000 bu. over the July allowance but still disappointed trade expectations by a million bushels (BW-Aug.25'45,p28).

Bourbon addicts get no comfort from the new quotas, since the use of com is still prohibited because of the outlook for feed grains. The only ray of hope was a guarded intimation that the de-



NAVY'S READING KIT

In San Francisco, a Wave displays "pony" editions of some of the 32 magazines that are packaged into a kit for overseas shipment. Each week, Navy personnel—on board ship or ashore—get 15,000 copies of various U. S. weeklies and monthlies, free of charge. Large ships and bases receive one kit for each 150 means smaller vessels and bases rate at least one apiece. The miniature magazine carry no paid advertising.

BUSINESS WEEK . Sept. 1, 1949

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partment might permit the distilling of some corn later if the crop justifies it.

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Distillers normally used 3,000,000 bu. of grain monthly in prewar production. Capacity was swollen to almost 7,000,000 bu. monthly by the synthetic rubber industry's alcohol demands. The cutback and the end of round-the-clock operation will mean a sharp drop in employment from recent peaks.

L-85 Still Stands

Many in dress industry fear dire results if fashion edict is lifted too suddenly. Others favor revocation now.

Dress manufacturers have been in suspense since the close of the war, waiting for action by Washington on L-85, the fashion conservation order, which has kept down the yardage and furbelows on women's apparel (BW-Apr. 18'47 n3?)

Apr.18'42,p32).

• For and Against—No decision has been made, and L-85 is being tossed back and forth in WPB meetings while manufacturers have pressed for and against retention of the order. At this point it looks as if the government may retain the order until Oct. 1 at least. This delay would give manufacturers time to deliver orders and enable retailers to move already-stocked fall merchandise which might go begging if customers could demand new fashions, styled along more generous lines.

Some manufacturers would be glad to see the retention of L-85 until December, which would give sufficient time to put the spring designs on a free basis, with the certainty that fall and winter retail buying would be well

under way.

• What Many Fear—In the opinion of many manufacturers, rescinding the order just as the fall season begins would result in the cancellation of orders, leaving hard-to-move stocks of outmoded styles and flooding the market with hastily planned and poorly executed styles. The most serious result, the trade argues, would be a reduction in the total number of garments produced because of the sudden shift in style trend while textiles are still very tight.

While the greater number of manufacturers favor temporary retention of L-85, there is a minority, with a certain popular backing, which would like to see the immediate return to free competition.

As for the effect on retail stocks, some merchants hold that, because goods have been so hard to get, they will move in spite of drastic style changes.

Reconversion

PROBLEM LICKED!

ROXALIN came to the rescue of manufacturers stymied by shortage of refrigerator-type enamels!

With phthalic alkyd enamels—the base for prewar refrigerator-type white enamels—on the critical list, manufacturers of kitchen, bathroom and hospital fixtures were up against it for a finish that would give their products the quality protection they deserved. ROXALIN's answer to the shortage was Roxyn 14B. Thermosetting White, a hard durable finish that meets the highest standards of quality.

HERE is just another example of ROXAUN engineering ingenuity that has solved many, many finishing problems for thousands of manufacturers. Feel free to call on us to help you with your production difficulties. Write to department 957 for complete information.



BUSINESS WEEK . Sept. 1, 1945

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Jahco Accused

Machinists' union charges that Cleveland concern attempts to coerce Jack's "associates" on Wagner act rights.

Jack & Heintz, Inc., the Cleveland concern noted for its high wartime pay, free meals; and Florida vacations for workers, last week found itself accused

of coercing its employees.

• NLRB Gets Charges-On the basis of charges filed by District 54 of A.F.L.'s International Assn. of Machin-ists, the regional office of the National Labor Relations Board issued a complaint accusing Jahco of restraining its workers in the exercise of the right to self-organization. Hearing was set for Sept. 25

In addition to charging Jahco officials with making disparaging remarks. about the union with which it had a closed shop agreement, the complaint contends that the concern fired three employees and transferred another to less desirable work because of union. activities and interfered with the elec-

tion of union officials.

• Double Headache-NLRB issued the complaint even as Jahco's president, Bill Jack, was engaged in an uphill struggle to get his plants converted for peace-

time production.

On record as wanting to buy the two Jahco-operated Office of Defense Plants factories for postwar operation in addition to the seven buildings wholly owned by the company, Jack says his firm will need them all during the next ten years of industrial prosperity which

he predicts. • What Products?-Jack maintains a discreet silence on the nature of Jahco's postwar products, but it is known that before victory the concern had developed plans for a gasoline engine for the Army Air Forces. It is now reported that Jahco will produce such an engine for use in light civilian automobiles. In anticipation of wartime production of the engine, a factory had been purchased and orders placed for machine tools and other equipment. Two weeks after hostilities ceased these orders had not been canceled.

Other peacetime products which Jahco conceivably might turn out in-clude fractional horsepower electric motors and ball bearings, items on which the company had wartime experience. In addition, it has been reported that Jahco has plans to enter the home electrical appliance field.

· Lacks Sales Force-But Bill Jack has problems beyond the fields of new

products and labor relations. Jack & Heintz, Inc., did not exist before the war, and during the war it had only one customer, the military services. Hence Jahco came out of the war without a sales department. If the concern invades the highly competitive fields with which rumor now connects the company, it is generally accepted that it must build a sales department-and from the ground up.

During wartime, finances were not a serious problem for Jack. For the future, company spokesmen point with some pride to the \$15,000,000 nest egg laid away a year ago through sale of preferred stock to the company's 6,700. "associates" for just such a postwar

contingency.

· Behind the Quarrel-Back of Bill Jack's current labor trouble is the rift that developed in July, 1944, when Matthew DeMore, president of the machinists' District Council, advised Jahco employees against subscribing to Jahco stock issued to finance postwar expansion (BW-Aug.5'44,p58). wordy exchange between Jack and De-More left the union leader on the short end because 98% of the company emplovees did buy the stock (BW-Sep.2'44,p106), and assign voting rights to Jack and Ralph Heintz as trustees.

Shortly thereafter, when Local 439 of the union held an election of officers, charges were made that Jahco employees, who held the balance of power in the local, were fighting DeMore, a member of the local, with a view to defeating him and making him incligible for a place on the District Council. Ballots were impounded by order of the international union and the old officers, including DeMore, held over.

• Veterans Rehired-The showdown came on Aug. 6 when Jack openly challenged the machinists' union by reinstating on the company's payroll discharged servicemen who had been laid off along with 2,000 other employees because they lacked a seniority status (BW-Aug.11'45,p100). DeMore and the district council revoked Local 439's charter, turned its affairs over to officers of the international, and later filed charges with NLRB.

Except to say that the matter was "a family affair better threshed out over the breakfast table," Jack & Heintz officials preferred to say nothing.

10

MONOPOLY CHARGED

A monopoly in the distribution of electrical precipitation units often used in smoke elimination is charged in an antitrust suit filed in U.S. District

Court in Los Angeles.

Defendants are the Western Precipitation Corp. of Los Angeles, the International Precipitation Co. of Los Angeles, the Research Corp. of New York, and Walter A. Schmidt of Glendale, Calif., president of the two Los Angeles companies.

Named as coconspirators were Howard A. Poillon, a retired president of the Los Angeles companies; Lodge-Cottrell, Ltd.,



PREFABRICATED SHELTER FOR SURPLUSES

To solve the problem of storing vast quantities of tools and other surplus mate rials, the Davidson-Oakland depot of the Reconstruction Finance Corp. Michigan, utilizes a simple but novel system. The equipment, millions of dollars worth, is stacked neatly on flooring (above), then prefabricated sheds are erected over the pile of materiel, just as it stands.

Home-Family-Job-

THREE OF THE MOST IMPORTANT THINGS IN EVERY MAN'S LIFE

THE security of a man's home and family depends essentially on his job. In "good times" there seems to be no lack of jobs and the security that steady earnings bring. Can things be planned so "times" are generally "good" — so more of us can enjoy a full measure of security? Here are some facts that point to the answer:

Men and women are employed in industry to produce something — other men and women to sell and service the products of such labor. It is an established economic principle that when we are able to produce more at lower cost, we sell more at lower prices.

Increased sales call for increased production and increased production means more jobs; more jobs and wages in turn, make more sales possible. As long as nothing disturbs the cycle, industry expands and progresses, and employment increases.

Invention, imagination, research, and hard work, are part of the picture. Airplanes, automobiles, radios, better homes and living conveniences — and the jobs involved in producing them — came into being, not by any wave of a magic wand, but because Americans wanted them, and were willing to put forth the effort to produce them.

It's this American will to progress which has built American industry and the millions of jobs it provides.

The source and real foundation for jobs lie in the fact that more and more employment is made possible by producing more and better things at lower and lower costs for 'Americans to use and enjoy.

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Birmingham, England; Siemans-Schuck. ert Werke, A. G., Berlin; Metallgesell. schaft, A. G., Frankfurt, Germany; Siemens-Lurgi-Cottrell-Elektrofilter-Ges ellschaft, M. G. H. fur Forschung und Patentverwertung, Berlin; and Precipi. tation Co. of Canada, Ltd.

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The complaint said that the units have been used in the production of high-octane gasoline, steel, synthetic rubber, aluminum, tin, air-conditioning equipment, phosphorus, magnesium, coal tar products, and many chemicals It is contended that the five foreign coconspirator companies agreed to engage in no business in the United States and the American companies agreed to refrain from business outside the Western Hemisphere and United States pos-

Still "Bon & Tam

Denver Post ownership remains as famed publishers provided in their wills. Stock need not be disposed of.

The status quo of ownership of the Denver (Colo.) Post was preserved in an opinion handed down in Denver last week by U. S. District Judge Henry S. Lindsley.

• Trustees Asked Ruling-Trustees of estates left by Fred G. Bonfils and H. H. Tammen, the famous "Bon & Tam" who built the riproaring western news paper into one of the most profitable of U. S. publishing properties, had asked Lindsley to rule on their right to continue ownership for trust beneficiaries of large blocks of Denver Post stock. He ruled that they had the right.

The trustees-the First National Bank of Kansas City and the Denver National Bank-had said in effect that they didn't want to continue longer, without specific court sanction, to carry so many eggs in one basket, especially common stocks. Beneficiaries of the trust, among others, include the Children's Hospital of Denver, prize charity of H. H. Tammen and later of his widow.

• Beneficiaries Content-Beneficiaries incidentally, were unanimously opposed to any sale, as they testified that they didn't believe they could get as much income from any other investment of the money resulting from a sale. Linds ley's ruling was based in part on his holding that Denver Post common stock is a substantial investment which has always paid dividends and in the postwar period may pay bigger ones.

Had he ruled against the trustee

holding the stock, the effective control of the Post might have been thrown wide open with a possible scramble for it, as the trustees control on behalf of the Bonfils estate at least 931 shares; and on behalf of the Tammen estate and the Children's Hospital, 1,041 shares, all out of a total of 5,000.

Other major stock ownerships: Helen Bonfils Somnes, 1,034 shares; Bonfils Foundation, 400; May Bonfils Berryman, 705; executors of Mrs. Tammen's

will, 908 shares.

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• Even Better Days Ahead—Net earnings of the Post for 1942, latest year of record, were \$1,162,000 (BW—Oct. 2'43,p70). This is a decline from 1939's \$1,631,000, but the difference is mainly in increased federal taxes. The newspaper rejected much advertising during the war because of newsprint restrictions, and once it is able to get all the paper it needs, and federal taxes are lowered, earnings should go up.

As a side issue, Lindsley reaffirmed an earlier lower court repudiation of one of the most peculiar provisions ever written into a will. Fred G. Bonfils disliked his son-in-law, Clyde V. Berryman, husband of May Bonfils Berryman, and in his will he left her \$12,000 yearly unless she should "become separated from or become the widow of" Berryman, when the legacy was to inrease to \$25,000. A lower court in 1934 held this provision to be contrary to public morals and policy, and awarded Mrs. Berryman her \$25,000 yearly from the estate anyway. In 1943 she got a Nevada divorce from Berryman, which he is now challenging in the Colorado courts.

The trustees asked Lindsley in view of this situation to reclarify Mrs. Berryman's position. He avoided ruling on the Nevada divorce, but reaffirmed the old decision that the provision in the Bonfils will is void.

EGG PRICES TUMBLE

The war's end sent the price of eggs on the Chicago Mercantile Exchange into a tail spin this week.

In late summer, egg prices normally remain firm. This season the price on November futures has tumbled in four weeks from 46.3¢ to below 40¢ a doz. (car-lot price, delivered at Chicago).

Several factors that should keep prices up have been negated by developments. Aug. I showed a new low in cold storage stocks (5,921,000 doz.). Egg production dropped 6% in the inst seven months of 1945 as compared with 1944. And hens just do not ay freely in August.

What overruled normal bullish expectations is a trio of bearish influnces. Military buying cuts, previously ander way, were speeded. Buying power s plainly due for a fall as war plant OWER DISTRIBUTIO ... and ACME UNIT-LOAD STRAPPING The flow of materials in and out of your plant . . . from the raw material stage all the way to the customer's door . . . represents an important factor in the cost of distribution. Efficient handling methods can point the way to lowering this cost factor. When products or containers are steel strapped on pallets or skids to form large units . . . that's efficient materials handling. Warehouse space and manpower are conserved. Loading and unloading is expedited. Product protection is multiplied. Distribution costs are lowered. Acme Unit-Load Strapping will contribute to lowered-cost distribution of peacetime production by providing the same economies that have made it an essential in the movement of war ma-teriel and supplies. Acme Steel Company, 2828 Archer Avenue, Chicago 8, Illinois, ACME STEEL COMPANY ACME STEEL CO. CHICAGO

BUSINESS WEEK . Sept. 1, 1945

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employment shrinks. And prospects of more generous meat supplies will turn away from omelets many a long-suffering customer who would rather have a porterhouse steak.

Other observers saw in the price break the beginning of a circle of peacetime plenty. First expectable result of lower prices is reduced egg production. Next would come ruthless culling. This would bring more chicken meat to market, make more feed available to cattle, eventually perhaps produce more beef and pork.

ANOTHER ATOM MAGAZINE

The first issue of "The Atom," to be distributed for the present nationally on a once-in-awhile basis, was scheduled to roll from the presses of Atomic Age Publishing Co. of Denver this week.

to roll from the presses of Atomic Age
Publishing Co. of Denver this week.

Articles by physics and chemistry
teachers at University of Colorado,
University of Denver, and elsewhere,
in addition to popularized stories about
atoms and the prospect of atomic power
by local writers, were to be featured.
The publishers are thinking in terms of
100,000 circulation at 25¢ a copy.

Partners in the new publication are J. Stephen Russell and E. L. Perrine of Monitor Publications, and James F. Ferguson, general manager of Atomic Age Publishing Co.

If The Atom catches on it may eventually become a monthly or bimonthly publication. In addition to The Atom, Atomic Age will put out other periodicals, including a periodical for juveniles, and possibly a series of reprint pocket classics which will sell for 12¢ each.

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EMPIRE STATE LESSONS

Lessons learned by the New York City fire department during the fire that resulted when a plane hit the Empire State Building (BW-Aug.4'45,p17) may bring about building code revisions in New York and elsewhere.

An official report on the fire proposed an amendment to New York City's building code which would forbid erection of any standpipe for fire hoses in such a way that protruding parts pass through any long shaft where falling debris can injure it. This recommendation followed the revelation that a standpipe servicing a gravity tank on the 85th floor had been severed by falling plane engine parts at the 54th floor where the 8-in. pipe crossed a fire tower shaft.

Another recommendation which conceivably may also be adopted outside New York calls for some form of modified fire drill for tenants of tall buildings, so they will be able to locate emergency stairs if fire causes elevator failure.

BUSINESS WEEK . Sept. 1, 1945

The ATOM

NEW SOURCE OF ENERGY

A Tide in the Affairs of Men

On August 6, 1945, an atomic bomb exploded over the Japanese city, Hiroshima.

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Its concussion blasted the city, vaporized the fibre of Japan's will to resist, and flashed across the world a light of such glaring intensity that even blind eyes could glimpse the forked road that is presented to humanity's choice and destiny.

It has been a scant fifty years since Pierre and Marie Curie embarked upon their research with the avowed intent of discovering "how the atoms of the universe are put together". Their work contributed radium to the knowledge and use of mankind, but it marked only a way station upon the awesome quest which they announced and which thousands of scientists have since pursued.

Under the compelling stimulus of war, the first major application of the release of atomic force has been in an instrument that raises by an unimaginable dimension our ability to dole out death. We can be devoutly grateful that the scientific leadership of the Allies, and particularly the industrial strength of the United States, brought to us, rather than to our enemies, priority in the development of this dread weapon. But even in its present infant phase, it is clear that ownership of the principle of the atomic bomb carries a trusteeship of terrifying gravity.

We hold in trust a power that is capable of unraveling the very fabric of our civilization. Equally, it may be susceptible of development as a mighty force for human welfare. But we have proved the destructive use, while the constructive applications are still in the realm of speculation.

Clearly the trust is of a magnitude that transcends national jurisdiction. No walls have ever been built high enough to fence in the spread of scientific knowledge, and even if we were resolved to forego the harnessing of atomic power for peace, it is hopeless to think that its application for war can be held for long as the monopoly of one, or a small group of nations.

At one giant stride our scientific and technological development has so far outdistanced our social engineering, that we have no choice but to turn our full powers of creative imagination to control the forces we have unleashed and to bend them to man's use rather than to his destruction.

Since control is not possible without understanding, I have asked several of my editorial colleagues in the McGraw-Hill organization to present on the pages which follow a non-technical but authoritative account of the known facts and implications of atomic power.

Mul H. W. haw. N. President, McGraw-Hill Publishing Co., Inc.

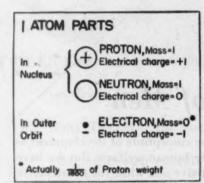
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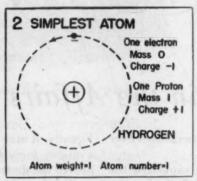
HOW ATOM SPLITTING

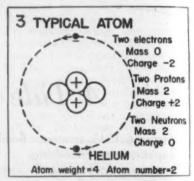
Five years ago the world learned that the atom of Uranium 235 had been split, releasing energy at the rate of about 11,400,000 kilowatt-hours per pound. The whole amount tested was less than the head of a pin, but there was no escaping the possibility that heaters, engines, turbines, jets and explosives could be powered by atomic energy. Then began the race to win the war with atoms.

With what help England could give, America outran the best atom-splitting team Germany could muster. It was all done in silence. From the summer of 1940 until the atomic bomb blasted Hiroshima, black secrecy blanketed history's most amazing scientific and industrial accomplishment.

Coldly scientific in form, the War Department's "Smyth Report," released August 12, 1945, traces







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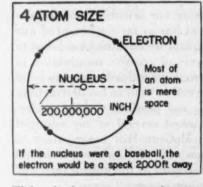
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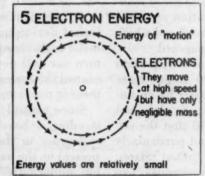
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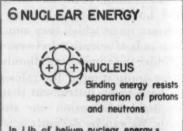
Each of the 92 elements has its own atom, yet all atoms are made from the same three pieces, Fig. 1: proton (weight 1, electric charge +1), neutron (weight 1, charge 0), electron (weight 0, charge -1).

Every atom is a tiny "solar system." Its central "sun" has one or more protons, generally neutrons too. The revolving "planets" are electrons, one for each proton in nucleus, because plus and minus must balance in the atom.

The opposite charges attract, but high speed keeps the electrons out in their circular orbits, just as the centrifugal tendency of the revolving earth defies the sun's gravitational pull. All the weight of an atom is in the nucleus, so add the number of protons and neutrons to get the atom's weight. The atomic number is equal to the number of protons. The elements are known by their atomic numbers. Thus uranium (92 protons) is element 92.







In 1 lb. of helium, nuclear energy = electricity enough to run a 100-watt bulb 13,000,000 years.

With only their outermost orbits touching, it would take half a million atoms to span the thickness of a human hair. Yet if one could expand an atom until its outer orbits encircled 100 acres, the nucleus would be no bigger than a baseball. The atom is mostly empty space, Fig. 4, and nuclei are difficult targets; so much so that a neutron bullet fired at a mass of atoms may pass right through without a hit.

The almost weightless speeding electrons, Fig. 5, supply all the energy of chemical reactions (as when coal burns or TNT explodes). Evading all ordinary chemical action, the immensely greater energy bound up in the nucleus, Fig. 6, can be released only by direct hits on the nucleus to break the bonds that hold the protons and neutrons in a tight bundle.

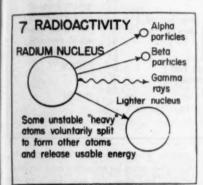
RELEASES ENERGY

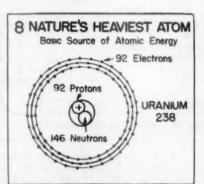
the fantastic course of atomic engineering through the five years of news blackout. It leaves no doubt that only a complete mobilization of America's technical resources could have won this victory in time.

Other writers in other places will unfold the epic story. This presentation leaves no space to reflect the glory of the accomplishment or even to record its history. The aim is more immediately practical

- to give the professional and business readers of the McGraw-Hill publications a sound and honest, though non-technical, understanding of this atomsmashing business, so that they will know better what to do about it in their personal and business lives.

Now for step one: learning the shape of atoms and how atom splitting releases energy.





9 ISOTOPES

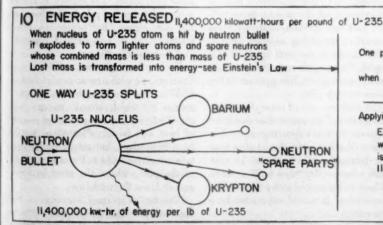
Chemically the same element and their nuclei contain the same number of protons. Only the number of neutrons differs. Thus the uranium isotopes are:

⊕ 92	⊕ 92 \	⊕ 92
(0146)	(0143)	(0142)
U-238	U-235	U-234
99.3%	0.7%	NEGLIGIBLE
OF	ALL URA	NIUM

Radium nucleus, Fig. 7, automatically emits particles and energy as it decays to form nuclei of a lighter atom. Most common form of uranium, nature's heaviest atom, is Uranium 238, Fig. 8. This form is not directly useful for energy release, but is important as the raw material for a new synthetic power atom, plutonium.

An element may have several isotopes — alternate forms with the same number of protons but slightly different

numbers of neutrons. Uranium 238 is the isotope in which protons and neutrons total 238 (so atom weight is 238). It is 99.3% of the total weight of pure, natural uranium. The stuff needed for direct atomic-energy release is Uranium 235, only 0.7% of the total weight and very difficult to separate from 238, To put it another way, every pound of energy-giving U-235 comes mixed with a dead load of 140 pounds of relatively inert U-238.



EINSTEIN'S LAW: One pound of onything = 11,400,000,000 kw-hr.

when or energy converts to energy or mass

Applying this law to U-235 split:

Explosion products of one pound of U-235 weigh 0.9990 lb., so 0.001 lb. of the mass is converted into 0.001 x II, 400,000,000 = 11,400,000 kilowatt-hours of energy.

Slow neutron bullet splits Uranium 235 nuclear target, generating two lighter atoms (Fig. 10 shows one possibility) and several free neutrons ready to split other U-235 atoms. The following pages show how the original neutron may be

produced and directed and how a chain of self-propagating atomic explosions may sweep through a block of U-235 like a forest fire to release heat energy equivalent to 11,400,000 kilowatt-hours per pound.

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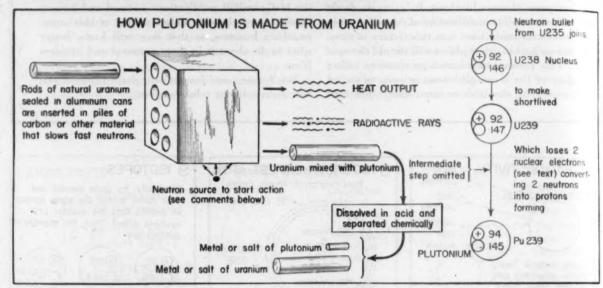
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CREATING and ISOLATING

Man-Made Plutonium - U-235 Substitute



We now have two kinds of atoms suitable for energy supply, Uranium 235 and the new man-made element No. 94, plutonium. Uranium, No. 92, has the heaviest atom of any natural element.

The Manhattan Project's plant, on the Columbia River at Hanford, Washington, is the world's greatest atommaking factory. Devoted entirely to the mass production of plutonium atoms, it uses U-238 as the raw material and U-235 as the energy source, intimately mixed in the same proportions as in natural uranium metal.

The production units at Hanford are several huge uranium "piles." Each is a very large block of graphite with holes in which are placed uranium-metal cylinders, sealed in aluminum cans to protect the uranium from corrosion by the cooling water constantly pumped through the pile.

Each pile runs itself, so to speak. Not even the conventionally pictured bits of radium, beryllium and paraffin are needed as a "pilot light" to start operation. There are always enough stray neutrons, or even cosmic rays, to start a chain reaction.

But once started, the design, size and control of the unit must be such that the chain reaction will continue at an even rate — neither die down nor overshoot into an explosion. To see this picture in atomic terms, consider the fraction of a second in which one million U-235 nuclei are split, producing two million lighter atoms (say, one million of barium and one million of krypton) and between one and three million fast-moving neutron projectiles.

Some of these escape in free flight right through the relatively vast atomic "open spaces." Some are "captured" by the many U-238 nuclei, and others are captured by the impurities. But, on the average, of the one to three million, just one million neutrons must succeed in smashing another million U-235 atoms in the next fraction of a second. Thus, with reproduction rate exactly maintained, life goes on in the atomic-energy pile.

The carbon, one of several possible "moderators," serves to slow down the neutrons without capturing many. The chance of a fast, straight-moving neutron hitting a tiny nucleus is very small, whereas the "slow ball" neutron is likely to be sucked in by the nuclear attraction if it would otherwise be a near miss.

From the practical angle, maintaining a chain reaction requires careful design and good controls. The pile must be slightly larger than actually necessary for a chain reaction (that means scores of tons of material). Controls must be sensitive and dependable. They slow the pile down to the balancing point by sliding in retarders, such as strips of cadmium.

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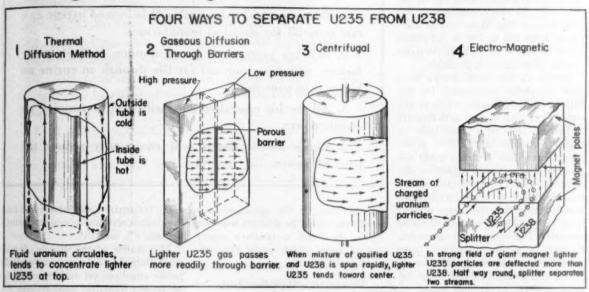
As already noted elsewhere, the energy released is about 11,400,000 kilowatt-hours for each pound of U-235 split. This energy appears first in the high speed of the pieces thrown off by the atomic split, then is converted to sensible heat as collisions slow down these projectiles. The energy is finally removed from the pile in the form of hot air, steam, hot water or other heated fluid in commercial quantity and thermal condition.

Such piles, operated with normal uranium, or with uranium enriched in U-235, would seem to be the primary means by which atomic energy will serve (if ever) as a commercial source of heat and power. Plutonium would be a byproduct, but might under certain conditions add to the energy yield of the pile without the need to separate it from the uranium.

The use of normal uranium in the Hanford pile sounds extremely attractive as a heat source, but has certain economic disabilities. Only a small part of the U-235 is used up before the pile must be shut down to remove the plutonium.

THE HIGH-POWER ATOMS

Isolating U-235 - a Gigantic Task



Many of the uranium ores, including most samples of pitchblende and carnotite, will yield from 1 to 15% metallic uranium. Chemical separation of the metallic "natural" uranium is simple. Whatever the source, natural uranium contains the three isotopes in the constant proportions of 99.3% U-238 and 0.7% U-235, with traces of U-234.

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Separating the U-235 from U-238, an operation essential for explosive uses of U-235, and probably important for future commercial controlled-chain piles, has been most difficult. Chemical separation was impossible because U-235 and U-238 are chemically the same.

The only possibility was a separa-

tion by physical differences, primarily a one percent difference in weight. The porous barrier and centrifugal methods pictured above required vaporizing a salt of uranium. All the methods shown have been used or tried on the Manhattan Project. All require many stages to achieve a substantial concentration of Uranium 235.

Dollarwise Thoughts on Atomic Energy

Costs mean little in war, but peacetime uses of U-235 and plutonium must pass the dollar test in competition with coal, fuel oil, natural gas, gasoline and electricity.

On the basis of energy costs only, "all other things being equal," the table on the last page of this section shows at what price per pound U-235 would give the same energy cost as conventional energy sources selling at the indicated prices. For such comparisons it is convenient to remember that one pound of U-235 is equal (energy-wise) to about 11,400,000 kilowatt-hours, also to 1500 tons of coal, or 200,000 gallons of gasoline.

Fuel engineers understand the limitations of such oversimplified comparisons. Others should be warned that "all other things" are never equal. With this thought in mind, reconsider the uranium piles operated at Hanford to produce plutonium. These use U-235 in the cheapest form, say about \$1400 per lb., assuming purified normal uranium at \$10 per lb. (140 lb. of uranium contains one pound of U-235.)

If this were the whole story, coal would have to sell for a dollar a ton to break even with U-235 as a water heater. However, the pile using normal uranium must be immense to hold its own in a chain reaction. More important, the accumulating fission products "poison" the reaction after only a small part of the U-235 has been used up. Then the uranium cylinders must be removed for plutonium recovery. Finally, it has not yet been found possible to operate the normal-uranium

piles at high enough temperatures for practical power production.

If we go to the other extreme and build a small pile, using concentrated U-235, we shall run into excessive material costs, perhaps several times the \$52,000 per lb. set down in the table as the equivalent of 20-cent gasoline.

Something between the two extremes is likely to prove the most economical—perhaps a pile operating on a U-235 concentration between 1 and 10%.

The engineer of the "atomic-power age" must know the price of Uranium 235 in various concentrations and the characteristics of piles suited to them. No such information is yet available. He must also watch the danger from radio-activity; the requirements for radiation shields; explosion hazards, etc.

CONTINUED ON NEXT PAGE

WHAT TO EXPECT

Before discussion of possible and probable future applications of atomic energy to the arts of peace, the atomic bombs should have consideration. We may assume that these bombs contained from two to 200 lb. of either U-235 or plutonium, or both. No more precise information is available.

Details of the bomb design have been completely suppressed, but the following basic considerations are stated or implied in the Smyth Report:

The explosive in a bomb must be highly concentrated U-235 or plutonium. Since slow neutrons could not produce a satisfactory explosion, the neutron retarder or moderator, is minimized. This, in turn, requires a U-235 mass so large that the escape of neutrons without hitting nuclei will not be excessive. For every 1000 atoms hit, the neutrons produced must split more than 1000 new atoms, so that the reaction will proceed rapidly in an expanding chain, as sketched below.

There can be little leeway in the size of the explosive charge. For a given shape there is a certain "critical" weight of material. If this is exceeded the bomb explodes instantly. If the weight of charge is less than the critical, it cannot be made to explode.

Therefore, the critical mass must be created at the moment of explosion.

The Smyth Report suggests that this can be accomplished by breaking down the charge into two or more well-separated parts, each having less than the

CLAIMS LIKE THESE ARE NOT JUSTIFIED

- 1. Pretty soon no more coal will be mined except as a raw material for chemical manufacture.
- 2. In a few years a tiny bit of uranium, built in at the factory, will drive your car for life through an engine no bigger than your fist.
- 3. All the big central stations will soon be running on atomic power.
- 4. Cheap atomic energy will enormously reduce the price of power.

critical mass. At the appointed moment these could be brought together within the bomb to create a supercritical mass, which would then explode automatically.

Peacetime Applications

Except possibly for superblasting operations, uncontrolled explosive reactions cannot be permitted in the peacetime use of atomic energy. This means that the quantity of U-235 assembled in any one spot must always be kept well below the critical weight to avoid spontaneous explosion.

Depending on the particular application, the most desirable concentration of U-235 may range anywhere from the 0.7% in normal uranium up to 100%, with the probability that

many industrial applications will find the greatest economy in concentrations between 1% and 15%.

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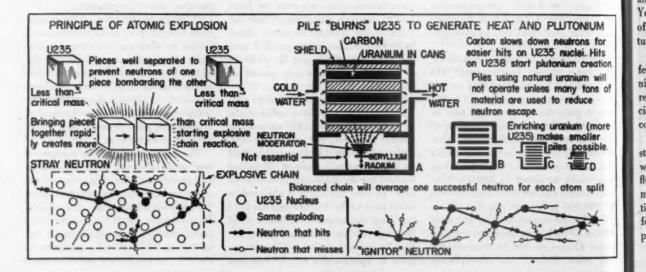
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This matter of the degree of concentration of U-235 has received little public attention, yet nothing could be of greater practical importance. To make this point clear, consider the two extremes, 0.7% of U-235 and 100% of U-235, respectively.

The Hanford pile, using normal uranium (0.7% U-235) with carbon moderator, must be very large to work at all. It is inefficient in the sense that it must be shut down after a small part of the U-235 has been consumed. It cannot operate at high temperatures.

Its great advantage as a heat producer is the fact that its U-235 is bought at the lowest possible price. If



FROM ATOMIC ENERGY

... BUT REMEMBER THESE FACTS

- 1. The large-scale, controlled release of heat energy from U-235 has been fully demonstrated.
- 2. Beyond question, this energy could be applied directly for heating water and air, and making steam.
- 3. Such heat, in turn, could be applied directly, or converted into mechanical power or electricity by conventional steam turbines and gas turbines.
- 4. If and when U-235 in concentrations up to 10% costs less than \$25,000 per lb., it may find applications, but will compete, at first, with premium fuels rather than coal.

shown for the gas turbine would, of course, have to operate at temperatures up to 1200 F. There seems to be no basic reason why the pile itself could not be built inside the compressed-air receiver, discharging its heat directly to the compressed air.

With rather high concentration of U-235, this arrangement might be suitable for large airplane drive if excessive weight of radiation shields could be avoided.

Also, presumably, rockets and planes of the "buzzbomb" type could be powered by atomic heat delivered to the air of the jet steadily, not in puffs.

The sketches stress direct applica-

purified normal uranium sells for, say, \$10.00 per lb., the price of 140 lb. (containing one lb. of U-235) will be only \$1400. This would be a very favorable price if the pile could operate efficiently with the 0.7% U-235.

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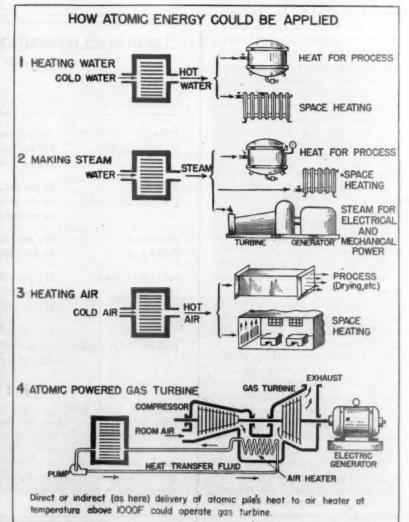
Concentrating the U-235 to 100% would permit a much more compact and convenient pile — perhaps little more than small pieces of U-235, encased in aluminum to ward off corrosion, and immersed in a tank of water; this should convert the water into steam at a regulated rate.

In large part, the control would be inherent. The water as a moderator would keep the chain going, but if the reaction got too violent, the resulting higher superheating of the steam would decrease the moderator effect and thereby hold the reaction in check. Yet even if all this comes true the cost of concentrated U-235 in the near future will be many times \$10,000 per lb.

Running up the concentration only a few percent above that in normal uranium may prove to be the way to get reasonable pile size and good efficiency without incurring exorbitant concentration costs.

When atomic energy is applied, the starting point is heat, picked up by water, air or a special heat-transfer fluid. Intermediate heat transfer fluids may be essential in certain applications (space heating and service water, for example) where people must be protected from injury by radioactivity.

The intermediate heat-transfer fluid



THESE THINGS MIGHT RESTRICT USE OF ATOMIC ENERGY

- l. Ineffectiveness of large piles using normal U-235 concentration
- 2. High cost of concentrated U-235 for smaller, more effective piles
 - 3. Danger from radioactivity
- 4. Weight and cost of shielding against radiation
 - 5. Explosion hazard
- 6. Possible short supply of uranium
- 7. Governmental restrictions on atomic-energy materials

tions of hot air, steam and hot water to process and space heating. This emphasis is justified by the often overlooked fact that such applications of heat have many times the total energy value of all the electricity generated in the United States for all purposes.

There has been much popular speculation regarding the type of engines required for atomic-power generation. The answer is simple. Present engines, steam turbines and gas turbines can be used with little or no change. This, of course, does not rule out the possible discovery of specialized engines for atomic power, or even direct production of electricity from atomic energy.

In the long run the implications of atomic power are staggering for both war and peace. However, popular writers on the subject have undoubtedly created unreasonable hopes in the minds of readers—for example, the expectation that in two or three years the Detroit builders will market cars with built-in "lifetime" slugs of U-235 and "fist-sized" engines.

Yet it seems fairly safe to predict that atomic energy will find some commercial applications within the next five or ten years, first, probably, as a premium fuel like aviation gasoline, worth a fancy price for specialized applications where low weight or some other characteristic is important.

As the cost of concentrating U-235 is reduced and application efficiencies improved, atomic energy may compete with cheaper fuels, perhaps ultimately with coal.

Important non-power applications of atomic energy may well include the ultra-high-temperature processing and fabricating of materials—also, modern "alchemy": building and rebuilding atoms to create new elements and to produce old elements at lower costs.

Radioactivity obtained directly or indirectly from artificial atom-splitting should find many important medical and industrial applications.

Turning back to ordinary power applications, we must avoid the temptation to overstress the economic importance of lower-cost power fuel. Fuel cost is only about 17% of the gross receipts of the electric utilities. Here's another way to put it: If, after allowing for transmission losses, one kilowatt-hour delivered to the consumer from modern plants represents a coal consumption of 1.5 lb., and if the coal costs \$5.00 per ton cancellation of the coal bill could not save more than % of a cent per killowatt-hour. And

atomic fuel will certainly not be free.

Performance of the atomic bomb is a monument to the scientists who unlocked the secrets of the atom and suggested the basic technique of making plutonium and concentrating U-235,

From there on, the job was at least 50% engineering. The various hig plants of the Manhattan Project are vast assemblages of pipes, tanks, boilers, valves, instruments and controls, installed and operated by engineers, largely designed by engineers. From now on, the speed with which atomic power becomes practical will depend on the effectiveness of the engineer-scientist team.

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It is possible, of course, that national controls may completely upset the entire technical and economic pattern of this discussion. For reasons of national security the government may decide to control or restrict atomic-power materials, plants and operations in ways not yet determined.

U-235 COULD COMPETE AT THESE PRICES other things being equal

Common fuel	Assumed prices	Comparable prices for Uranium 235, dollars per pound (nearest thousand)		
COAL	\$6 per ton	\$9,000		
(13,000 B.t.u.)	\$12 per ton	\$18,000		
JEEL WALTE	\$15 per ton	\$23,000		
FUEL OIL	2¢ per gal.	\$5,000		
(150,000 B.t.u. gal.)	4¢ per gal.	\$10,000		
	8¢ per gal.	\$20,000		
CITY GAS	50¢ per 1000 cu.	ft. \$39,000		
(500 B.t.u.)	\$1 per 1000 cu. fi	2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -		
NATURAL GAS	25¢ per 1000 cu.	ft. \$10,000		
(1000 B.t.u.)	50¢ per 1000 cu.			
	\$1 per 1000 cu. fl			
GASOLINE	10¢ per gal.	\$26,000		
(150,000 B.t.u. gal.)	20¢ per gal.	\$52,000		
	30¢ per gal.	\$78,000		

BUT

Note that "other things" are never equal. U-235 in normal uranium form is by far the cheapest, but involves use of excessively large and inefficient "piles." The unit cost of the U-235 in enriched mixtures increases with the degree of enrichment. Over-all cost comparisons can be made only for a specified concentration of U-235 and for apparatus suitable for that particular concentration. Possible explosion danger and need to protect personnel against radiation are other important considerations.

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Neither management nor bor is likely to be willing to ive up the in-plant feeding hat boosted war efficiency.

When, in 1942, in-plant feeding industrial workers was first introiced on a major scale in the United lates (BW-Sep.12'42,p39), the proam was designed primarily to improve artime industrial morale—and efficiency by protecting the workers' health. It as a wartime expedient.

Firmly Established—Now, however, ith the war at an end, in-plant feeding firmly established, and there is no selihood that either workers or man-

agement will be willing to see on-the-job meals suspended and industry return to the days of the tin lunch pail.

At various times during the war, workers have demonstrated how they feel about in-plant feeding by a number of short-lived strikes to protest against suspension of feeding programs, or—in a flareup at the Briggs Manufacturing Co. plant in Detroit—over too many bean sandwiches and too little meat

• For Peacetime Too—The implication is clear. Few union contracts now specify that feeding facilities must be furnished for workers, but plant employees—some 9,000,000 of whom were getting on-the-job meals (BW—Aug.19'44,p106) during the war—like the idea enough to take a militant stand for its continuation into the postwar period.

For a large segment of management,

the idea of permanent in-plant feeding will cause no concern. Of 101 plants surveyed in late 1944 by a private concern studying the future of in-plant feeding, 100 plants were found to be planning to continue making meals available for workers. All, however, were employers of 500 or more persons. Less unanimity can be expected among smaller concerns, where the mechanical problems are greater.

Aggravating the situation now is a reshuffling of workers in the transition from war. Those accustomed to hot meals at 35¢ to 50¢ a day may prove unwilling to go back to lunchboxes in plants which serve no meals. Thus, demands are expected for a spread of onthe-job feeding to mills and plants where the plan does not now exist. Federal enthusiasm for the plan is expected to spur this. Goal, of course, is to bring under the program as many as possible of the 6,000,000 industrial workers not now covered.

Now, practically all plants employing more than 2,500 workers have some

Meals on a Mass Basis; Boeing Shows the Way

The war put in-plant feeding on the map, and it provided one of the most convincing demonstrations of what can be accomplished by that system at the Boeing Aircraft plant in Seattle—a mammoth \$650,000 cafeteria (below).

Meals can be served at the rate of 50 a minute, and backstage kitchen equipment is geared to that fast pace. Prime examples are a whopping big mixer and chopping bowl (right) for preparing salads—part of every menu—and a specially built automatic pie maker (below, right), which turns out 350 an hour. A companion piece is a pie plate washer which scrubs 500 tins hourly.

There are steam-jacketed coffee ums of 150-gal. capacity which require an overhead crane to manipulate coffee bags; a battery of large electric ovens for roast; and 360 loaves of bread daily, and a galaxy of steam kettles ranging up to 100-gal. capacity. Piece-de-resistance in equipment is a 40 F chamber for chilling and deodorizing garbage.

The cafeteria has been operated by Industrial Food Crafts, Elizabeth, N. J., on a fixed fee basis. Meals start at 35¢, average 50¢. The company also operates 36 mobile units throughout the Boeing plant, and these are supplemented by 25 snack









Under Manhattan

A NETWORK of steam pipes runs under many of the streets and avenues of New York carrying heat and power to hundreds of buildings. The owners and occupants depend on the central plant, for most of them have no heating systems of their own.

How vital it is that these central stations have accurate gauges to indicate or continuously record the pressure!

In the majority of steam plants, power houses and industries, in transportation in the air, on land, on and under the sea, Ashcroft Gauges serve their purpose with enduring accuracy.

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kind of feeding plan; 95% of all factories with more than 1,000 workers provide meal facilities; but only about 30% of plants with a labor force of less than 250 supply meals.

The War Food Administration in the past year alone has given technical assistance to businessmen in 1,430 in-

dustrial feeding projects.

• Contract System Spreads—Generally speaking, about half of all feeding systems are operated by management directly; the other half by contractors who guarantee to furnish meals of WFA nutritive standards at moderate prices. The latter form of operation has shown rapid increases in the past year, principally among small plants.

In Milwaukee, workers of 105 small

In Milwaukee, workers of 105 small plants get hot plate lunches through a single food supply company having a centrally located kitchen and commissary, from which food is delivered just

before serving time.

Some 30% of all feeding systems are of the delivery-just-before-service type, mobile units serving scattered groups of employees or a number of small plants from a central kitchen. Another 20% comprises canteens and miscellaneous feeding units where sandwiches, box lunches, milk and hot or cold drinks may be purchased. The major group, 50%, is made up of permanent-construction cafeterias, with kitchens.

Supplies Scarce—One of the principal drawbacks today is the food supply. Factory Stores, Cleveland company which does industrial feeding in Chicago, Youngstown, Pittsburgh, Eirmingham, Detroit, Cleveland, and other industrial areas, and which serves plants employing approximately 250,000, recently said it was perplexed by inability to get meat, poultry, or fish necessary to turn out balanced meals. Getting food points was not involved; it was a matter of getting the supplies.
 Britons Impressed—U. S. achieve-

• Britons Impressed—U. S. achievements are sensational to foreign industrial feeding experts. Great Britain has had on-the-job feeding in progress for more than 75 years, and a British law makes compulsory the installation of feeding facilities in every plant employ-

ing more than 250 persons.

Recently a delegation of British industrial caterers spent one month touring U. S. plants to study feeding methods. The British caterers hoped to learn methods of improving postwar in-plant feeding back home. Before they left they admitted they had been fascinated by American rapid-fire, mass feeding—the record: 150 a minute at Bethlehem Steel in San Francisco. But, they added, they were stumped by the question of how they could use U. S. methods since the plants they service are almost entirely limited to 500 or fewer workers.

For Easy Lifting

Use of pallet system for freight on a national scale is sought by bureau. Standardized equipment will be pooled.

Palletizing—the mounting of pack. aged merchandise on platforms before shipment—was devised to save manpower in the work of loading and unloading. In wartime, the results were impressive.

For example, the Navy's use of 4x4ft wooden pallets enabled one woman with a fork lift truck to remove merchandig from storage and load a freight car in two hours. With old methods, the same job would have required the labor

of 14 men for half a day.

o On a National Scale—Such demonstrations have inspired a project now being pushed by the Division of Simplified Practice in the Bureau of Standards, which would make skids and pallet the foundation for a new system of transportation and warehousing. The division (fathered by Herbert Hoover when he was Secretary of Commerce) is planning palletization of packaged freight on a national scale for the sake



MECHANICAL CREW

A Towmotor lift truck has been converted into a one-man maintenance crew at Boot Mills, Lawrence, Mass. Equipped with a scoop attachment, it carries a 600-lb. load of coal to bunkers, hauls ashes to trucks, even conveys wet concrete from mixer to forms (above) among its chores. One operator replaces a crew of three men formerly needed on each shift.

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On'r answer too quickly. A \$10.00 mistake made often enough may be as disastrous to a orner grocery as a single \$100,000 mistake to a arge manufacturing plant.

Regardless of what mistakes may cost, the only vise course is to set up a system which constantly guards against them.

Valuable help in reducing the number of mistakes you make in your business is available for the asking. For whether mistakes result from inaccurate book-keeping, or a lack of vital facts and figures on which to base decisions, there is a National system that will cut

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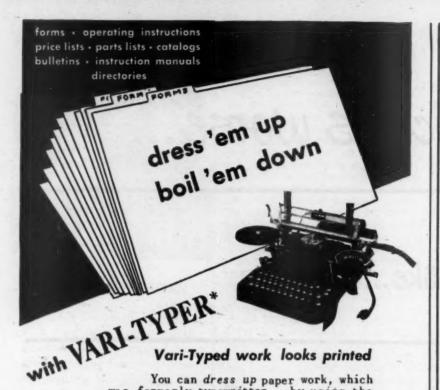
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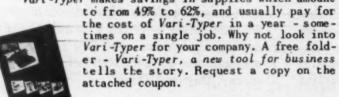
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The accounterments of war have described a full circle in 400 years in at least one respect. At least two different types of body armor—analogous to the chain mail of the middle ages—were being tested in action by the Army when the Japs quit.

Armor Styles Change

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 One type consists of aluminum alloy plates with nylon padding secured in pockets attached to a nylon canvas vest. These vests were originally made with manganese steel plates, but aluminum alloy proved lighter and more flexible.

The other is made of a plastic known as Doron, which is made by combining a newly developed resin with glass cloth under pressure to form rigid plates, which are inserted in pockets in a vest as with the aluminum alloy.

• This 20th century armor was developed to guard foot soldiers against shell fragments, which caused about 80% of all wounds in the first World War, and a percentage almost as high in this war. It was also being tested by the flyers as protection against flak.

of the economies of mechanical has

Use of skids and pallets is an of story. Newer is the idea of standard izing the sizes to fit snugly into boxcan Next step would be the pooling of the pallets and platforms, just as freight car are pooled, so that dead-heading can be reduced or avoided. One idea is to get the railroads to supply them, charging a rental fee. Pallets are charging a rental fee. Pallets are charge (the average cost is perhaps \$2.50) of that rental would be nominal, particularly in relation to the time and mone saved.

 Types of Platforms—In general, two kinds of platforms are used, the skid which has four legs, usually steel, supporting a heavy wooden floor, and the pallet, which is a double floor separated with stringers to make a space for the forks of the lift truck.

An advantage claimed for the pallet over the skid is that several loads can be tiered one on top of the other, with the pallets serving to tie the stack together and distribute the load evenly, whether in boxcar or warehouse.

Skid platform sizes have already been the subject of one voluntary simplification project, but pallets now come in hundreds of sizes.

Experience has suggested standardiz-

BUSINESS WEEK . Sept. 1, 1945

g the pallets to hold multiples of andard-size shipping cases and also fit ugly into trucks and boxcars.

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In the Grocery Field-A further apication of this idea is planned by grory wholesalers, who intend to adjust mensions of aisles, bays, and columnights of new warehouses for standard palletized" storage, so as to conserve ace and facilitate handling to the ut-

Grocery products are regarded as articularly adaptable to containers dened to fit pallets that in turn will the boxcar. Accordingly, the first ep by the Division of Simplified Prace is the development of a list of andard pallet sizes, which will be subitted for suggestions and subsequent proval by food packers and distrib-

Culls Pay Off

Unmarketable spuds are ackbone of starch industry in daho. No longer a loss, they're ated a million dollars a year.

Until a few years ago, the principal istinction accorded cull potatoes in daho was that most of them were enred in red in the farmer's account ook. Today these ugly ducklings of ical has he Idaho potato family are the foundaon of a business producing a million ollars of income annually. Sired by Science-Chemurgy provided

his agreeable transition from red to lack by converting the rejected spuds nto starch and siring a new industry in daho.

Since this use for culls was found in nid-1941, four starch factories have een built in the Snake River Valley of buthern Idaho-at Twin Falls, Blackoot, St. Anthony, and Menan-and hese plants produce more than half he white potato starch used in the Inited States.

From Bits and Pieces-Engineers for eel, sup-and the bied by wartime shortages of structural eparated naterials and machinery, or their in-for the bility to obtain priorities. They bought he steel from an abandoned bridge, onverted old automobile transmissions nto gear reduction units to operate the gitators for settling vats, rewound old notors for the potato washers and haker tables, bought used spinners and evenly, rying equipment from an abandoned

eet sugar factory. With such bits and pieces they put ogether the four plants which since ave processed 175,000 tons of waste otatoes into 22,000 tons of starch for

9t happened in STEAM TRAPS When Carpenter made Stainless EASY TO DRAW

> For steam trap buckets that must withstand corrosion from all types of water found throughout the country and operate in temperature ranges up to 750°F., the need for Stainless Steel is self-evident.

But steam trap buckets must be deep-drawn—and not so many years back that wasn't an easy job with Stainless. Today, thanks to Carpenter's development of soft, ductile Stainless Strip, the steam trap bucket above was drawn to a cup depth of 3½" in three easy draws. Moreover die wear was cut, rejects were reduced and production increased.

Yes, it happened in steam traps and it can happen in your new

or redesigned products. The common denominator in obtaining best Stainless fabricating results is uniform, easy-working Carpenter Stainless. And by choosing Carpenter Stainless you get the extra advantages of high strength/ weight ratio, corrosion, heat and wear resistance, special physicals and gleaming eye appeal.

Make use of the diversified Stainless experience of your nearby Carpenter representative to improve your products. He has helped hundreds of other manu-facturers find the successful solution to their Stainless requirements. He can help you, too. Call him today or write us at the mill.

THE CARPENTER STEEL COMPANY, Reading, Pa.

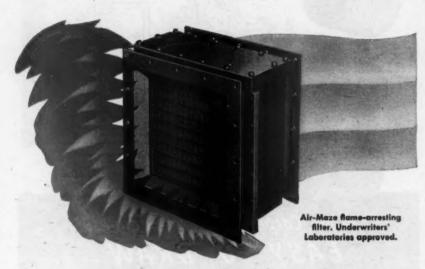


USINESS WEEK . Sept. 1, 1945

EXPLOSION CAN BREED ANOTHER ..



THIS "SNUFFER" KEEPS FLAME FROM SPREADING



-another example of Air-Maze engineering

In mines, grain elevators, liquid storage holds of ships-perhaps in your own building or plant-one explosion may set off others like a string of firecrackers. Flames blasting through ventilators can start a dozen infernos in an instant.

Air-Maze engineers have now developed a flame and explosion arresting panel only 4 inches thick. This "snuffer" is open enough to permit air to pass through freely, yet it has the amazing ability to prevent an explosion on one side from igniting even an airgasoline mixture on the other side.

This explosion-proof "by-product" of 20 years of specializing in air filtration is typical of the thousands of unusual developments pioneered by Air-Maze engineers. Whether your problem has to do with ventilation, humidity control, flame arresting, intake air filtration and silencing, or fine particle filtration of liquids-bring it to Air-Maze.

AIR-MAZE CORPORATION, Cleveland 5, Ohio. Representatives in Principal Cities. In Canada: Williams & Wilson, Ltd., Montreal, Quebec, Toronto, Windsor; Fleck Bros., Ltd., Vancouver, B. C.

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• Byproduct Sold-Starch is extracted a settling process after the culls ha been cleaned, washed, ground, dumped onto shaker screens that a arate the starch milk from the pu The pulp is reground for a second pathrough the screens, and after the second grinding and milk extraction, the pulp is sold for stock feed.

After the starch in the milk has se tled to the bottom of the vats, the pre tein water is drained off and discarded and the starch deposit is washed an agitated with fresh water repeated until all impurities have been removed Then it is dried, sifted, and bagged read for shipment.

· Capacity Doubled-The plants were designed to produce ten tons of stard a day, but all have doubled their capac ity. The only cloud on their horizon now is that the wartime shortage of potatoes has created demand for Idah culls-for any kind of spuds-in the foo markets and thereby menaced their ra material supply.

The chemurgic studies which led h construction of the starch plants were stimulated as a long-range aid to busi ness by such firms as the Idaho Power Co. Other crops under investigation are caraway, digitalis, sage, fennel, and

soybeans.

DDT PAINT TESTED

Experiments by major manufactures have demonstrated the effectiveness of DDT-impregnated paint as a long-time insect repellent. Rooms in which such paint has been used have been found to remain completely free from flies and mosquitoes.

Laboratories reporting such successed to date include those of the Sherwin-Williams Co., E. I. du Pont de Nemour & Co., and Carbola Chemical Co.

Tests have been made in restaurants hotels, and public buildings as well as homes. Interior wall paints, screen enamels, and porch paints have been used and found to be nontoxic.

Indications are that such finishes are also effective against cockroaches, moths and most of the other insects that alight on the painted surface.

NEW VERSATILE PLASTIC

Kriston, a new nonflammable thermoset plastic, has been announced by B. F. Goodrich Chemical Co., Cleveland, as its first new postwar product.

Some applications for Kriston which have been suggested by Goodyear are in the optical industry, where its reported refractive index (about 1.57, higher than most optical glass) and

physical properties are said to it suitable for lenses, prisms, or sparent sheets; the electrical indus-where its dielectric strength and rical resistivity suggest its use in intors and other molded insulating the chemical and processing inries where its claimed imperviousto corrosive materials and solvents ld make it valuable in fabricating s for equipment; as a low pressure mant for paper, fabrics, and wood mechanical services; and, finally, bese it can be made water-clear or in a e range of colors, in the fields of ion and decoration.

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he product, one of a series of new mosetting resins, is formed by polyizing liquid monomer in the prese of a suitable catalyst. Low tem-atures and no pressure are required. odycar plans to offer the product y in the liquid monomer state and s not plan to do any fabricating.

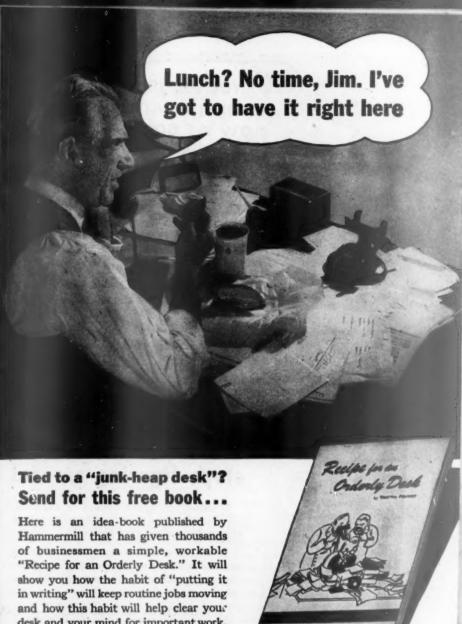


ORTABLE CARGO SCALE

hes are turdy enough to weigh quantities up 5,000 pounds, yet light enough to ts that avel by air, the 185-lb. cargo scale, esigned by Howe Scale Co., Rutland, t., has special utility for pilots, ho must know the exact weight of heir cargo at all times. They can now ced by any their own equipment with them Cleve or use on landing fields remote from which ivilization, where instruments for ar are ccurate measurements are few and far etween. The heat-treated aluminum nechanism may well have postwar pplication for highway trucks also.

USINESS WEEK . Sept. 1, 1945

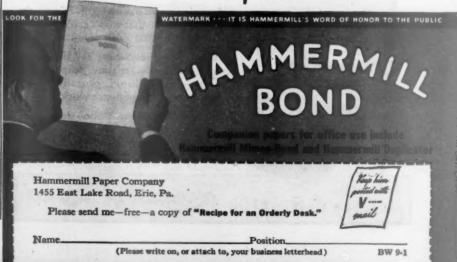
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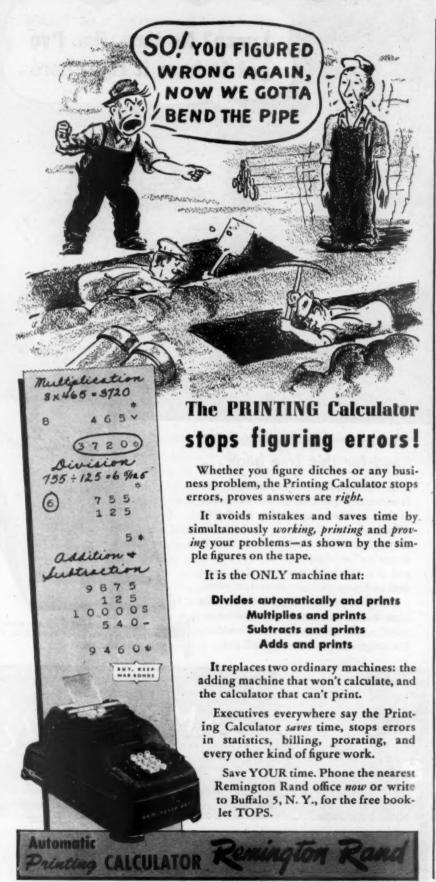


desk and your mind for important work.

Every one of the suggestions in this book has been tested and proved in practice. Try them out. Send the coupon. No obligation. No salesman will call.

Hammermill Bond is a paper made for business use; depend upon it for your office printing.





NEW PRODUCT

Stiffness Gage

The resilient qualities of flexible terials up to 1-in. thickness, such paper, cardboard, plastics, plastic la nates, light sheet metal, foil, and a can be determined quickly and a

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rately by the Taber V-5 Stiffness Cap new product of the Taber Instrume Corp., North Tonawanda, N. Y. The instrument comes in two models: a actuated by hand, the other by inbuelectric motor (above).

Whatever the method of actuation the operator cuts a 11x21-in. test spec men in a special shear that does the in in a single stroke, attaches the sample the instrument by means of thum screws, swings a pendulum, and read the degree of bending on a dial. No only does the device promise to eval ate normal stiffness and initial stiffne (which is frequently higher than no mal) in terms of stiffness units from 0 to 5,000, but to permit the chartin of elastic drift, or creep, of the to specimen. For measuring the flexur strength of very thin and flexible mate rials below ten units stiffness, an attack ment is provided that is said to elimi nate mechanical friction and inertia.

Fluorescent Tree Lights

New Fluorescent Christmas Tra Lights, developed by Sylvania Electra Products, Inc., Salem, Mass., will be ready for the 1945 holiday season. A ugh they are made with the same es of fluorescent powders that go tubular lights for regular commerand residential use, they are as nd as a golf ball, and require no cial auxiliary equipment for installaand operation.

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Like orthodox incandescent tree nps, they have screw-type bases and me eight to a string in pastel shades blue, green, yellow, and coral. Each np is said to use only 5 w. of current, have an approximate life of 1,000 hr., I to burn so cool that there will be a nimum drying effect on a tree.

uality-Control Forms

Statistical quality control promises to given added impetus and a new ease installation and operation through the relopment of the new Federal Chart eets and Work Sheets for dimensional ality control by the Federal Products ID. 1144 Eddy St., Providence 1, 1. To explain their use, the corpoion is also bringing out a comprehene new Federal Dimensional Quality introl Primer.

Object of the sheets and primer is to

THINGS TO COME

Neither bessemer converters, openhearths, nor electric furnaces will be required when it comes time to make one, two, or more steel castings for peacetime production emergencies or maintenance. A special type of thermitwhose fiery reaction of iron oxide and aluminum can be carried on in a portable, refractory-lined, steel crucible-produces a steel with a tensile strength of 70,000 p.s.i. which can be poured into appro-priate molds after the manner of furnace steel. Castings up to 400 lb. in weight have been so produced with complete success by the Navy's far-flung maintenance and construction units.

• When moving day comes for the restaurant, food store, country home, or other establishment utilizing a walk-in refrigerator, the chore of taking the massive equipment out and setting it up in its new postwar location promises to be eased and expedited. Secret of the new mobility is sectional construction. The removable, insulated top, bottom, sides, and door of such a demountable refrigerator are calculated to make it just as cold-tight as a standard built-in job.



As seen and heard in a New England laboratory by David Dietz, Science Editor of Scripps-Howard



In two minutes, a blast like the crash of a field gun will shake this quiet laboratory. The research scientist you see here is carrying out a test that

will save lives—one of the 37 ruthless steps by which modern engineering makes Plymouth Rope provel its strength for vital jobs.

The Riehle tensile-strength testing machine you observe is the only one of its great size in the world. It is powerful enough to snap a big rope in two with a pulling force up to 120,000 pounds.

I watched this exciting test, minute by minute, as the dial indicator crept up, ton after ton, until the fibers of this 7½ inch circumference war-time sisal rope on the testing machine crackled and snapped at 43,430 pounds—over 21 tons!

Plymouth Ropes of every type are subjected to these breaking tests. A Nylon rope of 9 inch circumference, for instance, withstood a pull of 116,000 pounds—about the combined weight of 55 popular-type motor cars!

This is one of the final steps taken at Plymouth—largest rope-maker in the world—to build ropes of greater strength, longer life, more useful performance. Precision methods of manufacture and carefully selected materials are tested at each stage, from the choice of raw fibers to the packing of finished coils of Plymouth Rope—for use in peace or war—at sea, on farms and ranches, in factories and in your own home.

Plymouth Cordage Company, Plymouth, Massachusetts, District Offices: New York, Chicago, Houston, San Francisco. Warehouse Stocks: New York, Boston, Philadelphia, Baltimore, Houston, Chicago, San Francisco.

In Canada: Cordage Distributors, Ltd.

PLYMOUTH



SPLIT-DUCT MANIFOLDING



Buell's assurance of HIGH EFFICIENCY, LOW MAINTENANCE, LONG LIFE

SPLIT-DUCT MANIFOLDING used in Buell (van Tongeren) Multiple Cyclones ensures uniform distribution of both gas and dust to the cyclone collectors. This method is most important to final collection efficiency. Uneven distribution can cause local recirculation of gas, resulting in greater erosion rates in the cyclones receiving the higher concentrations and in the impairment of collection efficiency. With Split-Duct Manifolding, a Buell design feature, maximum collection efficiency is attained by this uniform distribution of the gas load.

The outlet can be installed to discharge the cleaned gases from any side or end, a flexibility of arrangement that cannot be obtained with unit chamber manifolding.

Buell Dust Recovery Systems are designed to do a job, not just to meet a "spec". A promise fulfilled by Buell's high efficiency, long life and low maintenance in hundreds of installations throughout American industry.





JUST OFF THE PRESS: Buell's new revised book—
"The Buell (van Tongeren) System of Industrial Dust
Recovery"—now in its fourth printing, is just off the press.
Write for your copy today.

BUELL ENGINEERING COMPANY, INC. 60 Wall Tower, New York 5, N. Y. Sales Representatives in Principal Cities

DESIGNED TO DO A JOB, NOT JUST TO MEET A "SPEC"

enable a manufacturer to obtain dimensional data on work in progress both to chart the course of current production and to control quality before the product reaches final inspection and possible rejection. Both work and chart sheeth are so designed that data can be readily gathered at each key operation and just as readily charted for immediate analysis.

Portable Water Cooler

Newest source of cold drinking water is the Norge Portable Water Cooler,



developed by the Norge Division, Borg-Warner Corp., Detroit 26. Since it measures only 22x13x12 in., it can be placed permanently on any convenient table adjacent to an electrical outlet or carried to temporary locations where water may be in demand. Powered by a ½-hp., hermetically sealed compressor unit, the cooler is designed to hold either a 1-gal. or a 5-gal. bottle of water, and can be filled from a pitcher. A dispenser for paper cups is attached to the front of the cabinet.

Insect Repellent

Limited quantities of Insect Repellent 6-12 (known to thousands of GI's in the armed forces as Formula 6-12) are being made available for the remainder of this year's fly and mosquito season by the Carbide & Carbon Chemicals Corp., 30 E. 42 St., New York 17. The chemical, which has a glycerin-like consistency and a mild aroma similar to that of witch hazel, is rated as six to seven times more effective in repelling disease-bearing and nuisance mosquitoes than 100% citronella.

Just a few drops spread on the face, hands, and other exposed surfaces will repel flies, gnats, and fleas, as well as mosquitos, for several hours. Applied to the insides of trouser and sleeve cuffs, a little of the liquid, which is described chemically as 2-ethylhexanediol-1,3, is said to cause hitherto unrepelled chiggers to keep their distance.

BUSINESS WEEK . Sopt. 1, 1945

New Baker ARTICULATED Fork Truck cuts aisle requirements



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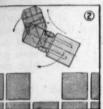
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1945

1. The driving section s



2. Both sections rotate about 25 degrees around turning center.



3. Truck articulates, lining lood perpendicular to aisle.



4. Truck moves forward, spotting load in position.

Revolutionary new principle increases available storage area, CANNED SALMON

A basically new design* involving a new method of steering by "articulating" the frame, permits swinging the load to line it up in position without lining up the truck itself. Thus this truck requires about two feet less space for placing loads at right angles to aisles. It needs less clearance on turns, and speeds carloading or any other handling operation where loads must be lined up or positioned in congested areas.

Specific advantages of this truck are:

1. Works in narrower aisles,

How the BAKER ARTICULATED FORK TRUCK

- 2. Turns in a smaller radius.
- 3. Spots loads quicker and easier.
- 4. Control units are more accessible.
- 5. Simpler Steering design cuts maintenance.
- 6. Permits mechanization of handling where hand trucks were necessary because of space limitations.

Field tests in both warehouse and production operation have proved the many advantages of this new truck. For complete specifications request Bulletin 1330.

*Licensed under Stevenson Patent No. 2,284,237.

Designed primarily for efficient warehouse operation



BAKER INDUSTRIAL TRUCK DIVISION of The Baker Raulang Company

2164 WEST 25th STREET . CLEVELAND, OHIO In Canada: Railway and Power Engineering Corporation, Ltd.

your competitor's PRODUCTION COSTS are lower, for equal quality, you will find it hard to make a profit. Salahalan



"CLEAN OIL" will help you get costs down

 Honan-Crane Oil Purification Systems in many leading plants have reduced cost of operations as much as 20%. The continuous removal of abrasives and contamination from industrial oils allows engines and machines to operate at all times on clean, fresh oil which greatly reduces excessive wear, increases production and safely extends the life of the oil.

No plant engineer or manager can afford to ignore the tremendous advantages gained by the use of Honan-Crane Oil Purification equipment.

HONAN-CRANE Oil Purification can be used on .

- 1. DIESEL Fuel and Lube Oils
- 2. TURBINE and HYDRO-ELECTRIC Generator Oils
- 3. Insulating Oils
- 4. Hydraulic Oils
- 5. Bearing Oils
- 6. Compresser Oils
- 7. Quenching Oils
- 8. Quartz Oils, etc.
- 9. OILS and COOLANTS used in grin ing, honing, boring, cutting and like



A request on your company letterhead will bring you com-plete information on the purification of any industrial oil.

HONAN-CRĂNE CORPORATION

FINANCE (THE MARKETS-PAGE 118)

Rail Merger Born

If C. & O. plan can clear all hurdles, result will be a new trunk line system ranking among first six in revenues.

The oft-rumored merger of the Chesapeake & Ohio railroad family into a new trunk line system (BW-Jun.30'45, p66) has at long last emerged from the dream stage.

• Acquiescence Expected-Thus far, the unification plan has only been approved by C.&O.'s directorate. But the C.&O .dominated managements of the New York, Chicago & St. Louis (Nickel Plate) and the Pere Marquette had already been consulted, and the presidents of those roads were present last week when the C.&O. board announced its decision.

Similar acquiescence is expected from the directors of the Wheeling & Lake Erie. After the four boards have acted, approval of the stockholders of the roads will be necessary. In the case of the W.&L.E., assent of the trustee voting the 73% stock interest jointly owned by C.&O. and Nickel Plate will have to be obtained.

· What It Would Mean-The final hurdle will be approval by the Interstate Commerce Commission, which recently "legitimized" Alleghany Corp.'s working control of the roads concerned.

Once that is crossed, the result will a rail system ranking among the six in the country with respect to guannual revenues, and among the ten with respect to mileage operated

The time required for all the need sary steps is problematical. Many lieve, however, that unless streng opposition is encountered, the form ties can be disposed of in six to twel

• New Stock Issues-The plan approve by the C.&O. directors and recor mended to their stockholders work create a new class of \$100-par "pring preferred stock, of which 645,000 shap would be issued. The road would a issue 670,000 shares of additional conmon stock.

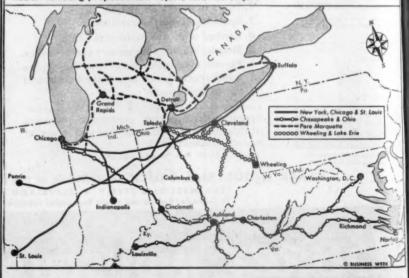
The dividend rate of the new pr ferred and the nature of its call pr visions have not yet been determine Nor has it been decided whether a sin ing fund should be set up to insure eventual retirement. It has been de cided, however, that the dividend won be higher than \$4 a year, and man believe that a 31% rate is more pro able, in view of C.&O.'s high cred standing.

• Exchange Terms-Under the plan exchange terms, each share of Nick Plate preferred (with accumulated div dend arrears of \$84) would be e changed for one share of new C.&O preferred plus w share of C.&O. com mon, while each common share would get & share of C.&O. common.

Pere Marquette has two preferre

C & O MARRIAGE ARRANGED

Robert R. Young proposes new 10,370-mile rail empire



HOW LONG Will Capital Financing Enjoy the Present Alternatives?

This is unquestionably a favorable time for corporate financing. Rates are low, and active demand by investors offers various alternatives in preferred and common stocks or bonds.

But as reconversion progresses, changed conditions may affect the capital market. Among the new factors which could modify the present abundance and cheapness of money will be large-scale financing of consumer buying, bigger inventories, longer terms to wholesalers and retailers, costs of reconversion and modernization of plants, and final settlement of taxes and war contracts.

Does your business need additional capital with the ending of the war? This question can be answered only by an analysis of your prospective operations in peacetime production.

We are making many such studies. If you are a well established business and would like to benefit from our facilities and experience in determining the form of capital requirements, one of our partners will be glad to go into the matter with you.

KIDDER, PEABODY & CO.

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Members of the New York Stock and New York Curb Exchanges

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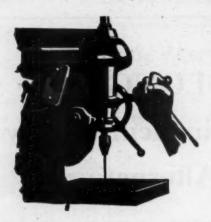
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BOSTON

PHILADELPHIA

CHICAGO



DIVERSIFIED CLEVELAND Takes Re-conversion in Stride

AS WAR CONTRACTS TERMINATE, Cleveland's industries shift smoothly to peacetime products. More than 80 per cent of its plants require little or no changes in the transition.

Widely diversified industry here produces the goods and materials for war or peace, on the same equipment, with the same skilled manpower. Postwar planners will find Cleveland ready to manufacture products, assemblies and parts for their postwar needs.

Cleveland has many advantages for the location of your plant. Stabilized employment, abundant raw and fabricated materials, low-cost power, excellent transportation—with 71 per cent of the nation's buying public less than 500 miles away.

Businesses of every type are urged to call upon The National City Bank for helpful information and assistance on the relocation of either plants or offices.

CLEVELAND-"Halfway to Everywhere"



THE

NATIONAL CITY BANK OF CLEVELAND



1845-ONE HUNDREDTH YEAR-1945

Member Federal Deposit Insurance Corporation

issues outstanding. For each prior prior prior prior erence share with \$36.35 of divident arrears, the plan offers one share of prior ferred and \$ of common; for each prior ferred share (with \$70 of divident arrears), \$ share preferred and \$ share common. One share of C.&O. common would be given for each two shares of Pere Marquette common.

Wheeling & Lake Eric preferred would be exchanged on a share-for-share basis for C.&O. preferred; each share of common would get 1½ shares of C.&O. common. Of the 116,093 outstanding shares of Wheeling & Lake Eric prior preferred, 115,369 are now owned outright by C.&O., and no provision was made in the plan for the other 724.

• Caught Off Balance—Announcement

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• Caught Off Balance—Announcement of the merger plan, engineered by Robert R. Young, came so unexpectedly that Wall Street traders were caught a bit off balance. They quickly figured that the new C.&O. common should not be expected to sell above the \$50 price around which the present shares had hovered in recent weeks. On that basis, they found that they had been far too optimistic in bidding up Nickel Plate common earlier this year to above \$75 and Pere Marquette common to above \$43.

So, despite the "peace selling" that had already dropped Nickel Plate common to the neighborhood of \$54 and Pere Marquette common to around \$29, traders promptly dropped them a few points lower. Since this seeking of "merger levels," the stocks have shown relatively little variation.

• A Different Story—The reverse proved true, however, in the case of the preferred stocks of the same two roads. Figuring that a new issue of 34% C.&O. preferred should command a price of around par, or \$100 a share, and that a new issue with a 4% rate could be expected to sell at around \$110, traders quickly saw that, if the merger went through, the Nickel Plate and Pere Marquette preferred issues would definitely be worth more than their market value at the time the news

was received.

Consequently, such issues have become attractive buys, and they are now being traded at prices of as much as \$6 above their pre-merger-news levels.

• Wide of the Mark-Even at that, however, traders were way off base in their earlier guesses as to the possible merger-value of the stocks. Not so many weeks ago Nickel Plate preferred, for example, was actually selling at \$148 a share, compared with its present level of \$126, and the two Pere Marquette preferreds at \$117 and \$116 against their present market valuations of only \$108 and \$92.

As Wall Streeters see it, the consoli-

WAR CONTRACT CANCELLATIONS

Cutbacks of war contracts came so fast when Japan surrendered that no complete list exists anywhere. Not even the armed services have taken the time to compile exact data on the flood of cancellations. It may have to be left to the historians to produce an exact figure.

 SEC's List Incomplete—Most dramatic evidence of how the cutbacks have hit business, however, is provided by the tabulation released by the Securities & Exchange Commis-

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But not even this list is complete by billions upon billions of dollars, as SEC regulations requiring the reporting of war contract cutbacks apply only to companies having publicly listed securities and when a contract termination amounts to 20% or more of their total sales of the previous year. Such companies must send a report on the cutback to SEC by special delivery mail not later than midnight of the day upon which effective notice of the cutback is received.

• Deferred Reports—In addition, when the value of two or more contracts terminated total 25% or more of the previous year's total sales, concerns with publicly listed stocks are required to report, but not until the close of the fiscal quarter nearest the cancellation. Such reports are begin-

ning only now to reach SEC in volume. More than 320 were received by SEC last week, and will be publicized later.

SEC's requirement for reports on contract cutbacks was not designed to give the country a complete statement of terminations. The purpose was to keep investors constantly in touch with any significant change in their company's war business, and to prevent any repetition of the Elastic Stop Nut case of last winter (BW—Dec.16'44,p72). The decision to require such reports was made by SEC only after consultation with business spokesmen over a period of months (BW—Apr.28'45,p72).

	Contract Cancellations	1944 Net Sales*		Contract Cancellations	1944 Net Sales*
		ons of Dollars-		Figures in Millio	
Company		Omitted)	Company	000,000	
Boeing Aircraft Co		\$608.1	Royal Typewriter Co., Inc		18.8
United Aircraft Products, Inc		743.5	Lima Locomotive Works, Inc		51.8
Wright Aeronautical Corp		778.2	Midwest Piping & Supply Co		19.4
Chrysler Corp	. 652.0	1,098.1	Mullins Mfg. Corp		40.6
Curtiss Wright Corp	. 616.0	1,716.9	Menasco Mfg. Co		16.6
Douglas Aircraft Co	. 525.0	1,061.4	Air-Way Electrical Appliance Corp.	. 9.6	2.3
Glenn L. Martin Co		533.4	American Type Founders Sales Cor	p. 9.1	48.2
Packard Motor Car Co		455.1	Magnavox Co	. 8.5	14.7
Bell Aircraft Corp		317.5	Murray Ohio Mfg. Co	. 8.3	9.9
Republic Aviation Corp		369.6	Apex Electrical Mfg. Co		13.5
Grumman Aircraft Engineering Corp		305.1	Emerson Radio & Phonograph Corp.		23.0
Lockheed Aircraft Corp		602.5	Iron Fireman Mfg. Co		18.7
North American Aviation, Inc.		684.0	General Precision Equipment Corp.		24.1
		28.6	General Bronze Corp	7.0	19.4
Pressed Steel Car Co., Inc		20.0	American Central Mfg. Corp		30.9
Newport News Shipbuilding & Dry	0.5 4	1460			20.4
dock Co		146.0	U. S. Hoffman Machinery Corp		9.9
Food Machinery Corp		180.0	Ferro Enamel Corp		42.1
Diamond T Motor Car Co		93.7	Admiral Corp		
N. Y. Shipbuilding Corp		172.9	White Sewing Machine Co		7.1
Caterpillar Tractor Co		245.9	National Gypsum Co., Inc		24.2
Northrop Aircraft, Inc		88.0	American Coach & Body Co		5.6
Wheeling Steel Corp	. 53.9	135.1	National Can Corp		12.1
Zenith Radio Corp	. 46.4	61.3	Woodall Industries, Inc	4.5	22.5
Sylvania Electric Products, Inc		101.5	Parker-Wolverine Co		6.7
Servel, Inc		58.0	Hupp Motor Car Co		9.7
Fruehauf Trailer Co		68.9	Hewitt Rubber Corp	3.7	15.8
International Tel. & Tel		51.7	Piper Aircraft Corp	3.7	10.6
Savage Arms Corp		37.5	Sullivan Machinery Corp		12.7
Aviation Corp		61.3	Central Foundry Co		3.7
Beech Aircraft Corp		107.3	Allied Products Corp		11.2
Richfield Oil Corp		78.4	Nineteen Hundred Corp		10.0
Federal Motor Truck Co		33.9	Herman Nelson Corp		4.2
American Woolen Co., Inc		183.0			6.8
		10.5	Checker Cab Mfg. Corp		
Casco Products Corp		61.2	Eureka Vacuum Cleaner Co		9.2
American Bosch Corp			Lionel Corp		8.0
Hayes Industries, Inc		36.0	National Pressure Cooker Co	1.5	7.9
Autocar Car Co		59.9	Goldfield Consolidated Mines Co	1.3	3.1
Cessna Aircraft Co		40.4	Sidney Blumenthal & Co., Inc		19.31
Fairchild Camera & Instrument Cor		41.7	Sonotone Corp		9.3
R. G. Le Tourneau, Inc		42.2	Ining Air Chute Co		8.4
Waco Aircraft Co		12.0	Irving Air Chute Co		
General Time Instruments Corp		24.6	ACF-Brill Motors Co		28.9
Farnsworth Television & Radio Corp	p. 12.5	33.9	Chicago Electric Mfg. Co	0.9	2.7

^{*} Calendar year, or fiscal year ended during 1944. † Calendar year 1942, later years not available.

Three Of a Kind

When you can sell three as easily as one, <u>do it!</u> Increasing the unit of sale will be more important than ever in the days ahead. And packaging can play an important part in this phase of your merchandising plan. Instead of selling your products in single units, group several units together and package them in an attractive H & D Salespak. Then watch sales boom.



Post-War Packaging Idea—SALESPAK

H & D Salespaks invariably increase units of sale. Ask yourself—"Can we group together several of our products and sell them as a unit in a Salespak?" For complete information on Salespak, write for H & D's booklet, "How to SELL with Corrugated Boxes."

HINDE & DAUCH

The HINDE & DAUCH Paper Co., 4561 Decatur Street, Sandusky, Ohio
Fectories in Baitimore • Boston • Buffalo • Chicago • Cleveland • Detroit • Glaucester, N. J.
Heboken • Kansas City • Lenair, N. C. • Montreal • Richmond • St. Louis • Sandusky, Ohio • Teronto



RECONVERTER RECONVERTED

Soon to be back at his old stamping ground, Arthur H. Bunker, formend deputy executive vice-chairman of WPB, is joining the staff of Lehman Brothers, New York, as partner. Before he started on his war career, he was executive vice-president of the firm of Lehman Corp. He went to Washington to head the old Office of Production Management's aluminum and magnesium unit, moved on to be come vice-chairman of the Production Executive Committee, which handled WPB's part in reconversion.

dation will produce far more stable results than either the Nickel Plate of Pere Marquette could ever hope to obtain by themselves. Consequently, they believe that C.&O. will have little trouble in getting the necessary consents from stockholders of those roads.

• Source of Dissent?—Many Wall Streeters are less certain, however, about the voting reaction of the holders of C.&O. stock. The new combination, obviously, would result in wider fluctuations in future C.&O. earnings than have characterized that road's operations in the past. In case the stockholders show marked aversion to the plan, a goodly number of votes could be mobilized against it, since only 7.9% of C.&O. stock is now owned by the Alleghamy Corp.

One factor that might help to put C.&O. stockholders behind the plan is the estimate that in 1944 consolidated earnings of the new system would have run around \$4.43 a share on the in-

BUSINESS WEEK . Sept. 1, 1945



WHAT NEXT...

WILL THEY DO WITH THESE

FIBERS OF GLASS?

LIFE JACKETS packed with grass! Yes, microscopically fine fibers of Fiberglas* offer many new advantages in this vital marine life-saving equipment. These resilient Superfine Fibers are packed to form millions of entrapped air spaces within the jacket, giving it buoyancy. Being glass, the fibers will not rot or burn; they resist fungus growths; retain their buoyant property in spite of repeated immersions and dryings. These newest fibers also are being used in thermal and acoustical insulating blankets in aircraft.



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d have he in-1, 1945 INTRICATE PARTS, like this aircraft duct, are now being formed, in one piece, of Fiberglas-reinforced plastics without costly dies and fixtures. The use of Fiberglas Cloth with the new contact and low-pressure resins, provides a new material which combines great strength with extremely light weight—offers significant time- and cost-saving possibilities in the fabrication, assembly and installation of formed parts.



PORTABLE REPAIR SHOPS
—for transportation by air
to remote points—are insulated with Fiberglas Thermal Insulation to help
maintain the control of temperature and humidity required for repairing precision instruments. This same
efficient insulation—lightweight, moisture-resistant,
firesafe glass fibers—is saving fuel, providing yearround comfort in homes and
buildings where U. S. Gypsum's "Red Top" (Fiberglas) Insulation has been
installed.

100-OCTANE GASOLINE pours from this great, modern refinery where Fiberglas is helping to maintain high production efficiency. High-temperature process lines are covered with Fiberglas Pipe Insulation; chemical processing vessels are insulated with Fiberglas Metal Mesh Blankets. Besides its high thermal insulating efficiency and light weight, Fiberglas offers permanency and stability, because it is an inorganic material.

These are but a few typical examples of the ingenuity of designers and engineers in using Fiberglas in one or more of its many forms, to improve products or speed production. Perhaps it can do a better job for you, too. For further information about Fiberglas—or samples for experimental purposes—write Owens-Corning Fiberglas Corporation, 1803 Nicholas Bldg., Toledo 1, Ohio.

In Canada, Fiberglas Canada Ltd., Oshowa, Ontorio

FIBERGLAS



*Washington — The State — Has Everything!

Unrivalled supplies of electric power ... plus co-operation among distributors of power ... gives industries in the State of Washington cheap electricity in abundance. Through the Northwest Power Pool (composed of the principal private, municipal and federal electric systems, all interconnected) industries in every part of the State have access to the power they need. Great electrochemical and electrometallurgical industries are already operating ... aluminum, magnesium, special steel alloys, calcium carbide, and wood-products and smelting plants, all requiring large amounts of power. Potentially this area can produce more and cheaper hydroelectric power than any other region of the United States. The Northwest Power Pool, tested and proved in every wartime emergency, can also serve other industries taking advantage of the resources and markets offered by the State of Washington.

NORTHWESTERN ELECTRIC COMPANY

THE WASHINGTON WATER POWER COMPANY
PACIFIC POWER & LIGHT COMPANY

PUGET SOUND POWER & LIGHT COMPANY

Business-Managed Electric Companies, Serving Low Cost Electricity to More Than 370,000 Homes, Farms, Businesses and Industries in the State of Washington



ABUNDANT, CHEAP, HI DROELECTRIC POWER FOI INDUSTRY—vast, intercon nected hydroelectric system eased

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IMMENSE SOURCES OF RAW MATERIALS—miner als, timber, fuels, water power, etc.

NUMEROUS BASIC INDUS.
TRIES—provide materials for processing.

SKILLED LABOR—intelligent, vesponsible, fair in its dealings with management.

DIVERSIFIED AGRICUL TURAL PRODUCTION fruits, grains, livestock, ven etables, dairy products.

PLEASANT LIVING—a ten perate, healthful climate ideal for both working au living.

LOW TAXES AND CON-SERVATIVE FISCAL POLI-CIES—definite, statutory limit on property taxes ... no state income tax ... no general obligation debt.

UNEXCELLED TRANSPORTA
TION FACILITIES—by land
sea and air . . . in all directions . . . deep-water harbons

GATEWAY TO THE GREAT POSTWAR PACIFIC MAI KETS—the Orient, Alaska Russia, Canada, South America.

INDUSTRIAL SITES AN HARBOR FACILITIES abundant industrial building sites on harbors, trackage and highourys; availab dock, terminal and um house facilities, anchorage etc.

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eased amount of common stock that ould have been outstanding, compared th the \$3.57 a share which C.&O. tually reported. Likewise inviting are timates that combined net this year ould run around \$4.65 a share as ainst \$3.25 a share by C.&O. alone.

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NSPORTA all direc

V-Loan in October

Sales to individuals again to emphasized. Limitation may e placed on subscriptions by surance firms and banks.

Wall Street's government bond owd wasn't far afield in its guesses 3W-Aug.25'45,p74) concerning spefications of the Treasury's new Vicry Loan.

\$11,000,000,000 Goal-The Treas-'s final drive for funds to meet war penses has now been scheduled to get nder way on October 29 with an anounced goal of \$11,000,000,000.

Despite the many early rumors to he contrary, the V-Loan "basket" of curity offerings represents substanally the same group of issues sold publy during the previous campaign. Again cluded are the familiar E, F, and G vings bonds; Series C savings notes; 1% bonds due in 1972 and first callble in 1967; 24s maturing 1962 and llable in 1959; and the 7% certificates indebtedness due Dec. 1, 1946. only offering omitted will be the wenth loan drive's medium-term 1½s. Emphasis Unchanged-As in all forner war loan campaigns, the major mphasis of the Victory Loan drive ill be on sales to individuals. In the ew bond drive they will be asked to nvest at least \$4,000,000,000 in the ew securities, including \$2,000,000,-00 in the E savings bonds alone.

The new quotas are substantially wer than the \$7,000,000,000 and \$4,-00,000,000 targets set up for individals to shoot at in the "Mighty

eventh" drive.

The over-all quota is generally exected to be attained as a matter of ourse, but some nonofficial quarters onsider the E bond goal pretty steep

ow that the shooting has ended. New Limitations—The "ground rules" us far laid down to govern the camaign are identical with those pre-ribed for the "Mighty Seventh."

Whether these regulations will be bused as much as in earlier drives reains to be seen. Some changes in rules ay be made. For example, subscrip-ons by insurance companies and savgs banks are likely to be made subct to some limitations.

Common Stocks in War and Peace

In its early years, the 1939-45 wartime stock market proved no paradise for investor or trader. Recurring Axis gains soon chilled the speculative ardor ignited by Hitler's invasion of Poland and finally sent many stocks to new eight-year lows. Only when the tide of battle began to turn in 1942 was the market willing to rise and not until eventual victory was assured was it able to produce

any second World War counterparts of 1915-16's war baby crop, Consequently many consider the spread of peace-is-bullish" sentiment far more responsible for the 1942-45 bull market than speculative hopes that war would inflate corporate earnings and dividends. The early favorable impact on the market of the recent cessation of hostilities has further confirmed their opinion.

		TI W . D . D .			en Days
	-		Price Performance-		After
Ye down to 1 Observed	Open	High (date)	Low (date)	Close	Peace
Industrial Shares					
Allied Stores	\$7.00	\$31.00('45)	\$4.00('42)	\$30.00	\$30.50
Allis Chalmers	29.75	49.75('45)	21.75 ('40)	47.75	49.50
American Can	94.00	116.50('40)	55.25('41)	97.00	100.50
American Car & Foundry	17.50	55.37('45)	18.00('40)	54.00	56.00
American-Hawaiian S.S	13.50	50.50('40)	23.00('40)	40.50	41.00
American Sugar Refining	17.00	56.87('45)	12.75('40)	45.50	45.00
American Tobacco "B"	76.25	91.75('40)	34.87 ('42)	79.00	83.67
American Woolen	4.62	29.25('45)	3.50('42)	19.75	19.75
Anaconda Copper	22.87	40.00('39)	18.00('40)	32.00	33.25
Armour & Co	3.62	10.25('45)	2.25('41)	9.00	9.00
Bethlehem Steel	54.50	100.00('39)	49.50('42)	77.50	80.00
Chrysler Corp	72.12	117.75('45)	41.62('41)	112.00	122.00
Consolidation Coal	2.12	26.62('45)	2.12('40)	21.00	21.00
Douglas Aircraft	58.50	95.75('45)	44.00('43)	82.25	84.00
E. I. du Pont	154.75	188.50('39)	102.75('42)	164.00	170.00
Endicott Johnson	32.50	71.50('45)	35.00('40)	172.25	72.62
General Electric	32.12	44.50('45)	21.50('42)	44.00	46.00
General Foods	40.25	49.37('40)	23.50('42)	45.00	45.50
General Motors		70.50('45)			
	41.50		28.62('41)	67.75	70.12
B. F. Goodrich	16.25	63.50('45)	10.00('40)	59.75	63.00
Graham Paige	50	12.00('45)	.50('40)	10.75	11.87
Int'l Harvester	45.87	90.87('45)	38.00('40)	85.12	87.00
Johns-Manville	59.00	128.00('45)	44.00('40)	124.00	128 00
Lehigh Coal & Navigation	1.75	16.25('45)	1.50(*40)	13.50	13.00
National Dairy Products	14.37	32.75('45)	11.87('40)	29.75	30.75
National Distillers	20.12	44.75('45)	17.00('40)	41.12	42.12
Pacific Mills	11.50	54.50('45)	8.00('40)	53.75	54.00
Paramount Pictures	6.75	34.50('45)	4.25('40)	31.87	34.00
Radio Corp	5.00	13.87('45)	2.25('41)	13.75	15.50
Sears Roebuck	72.50	122.50('45)	43.50('42)	120.75	129.50
Standard Oil (N. J.)	39.00	66.12('45)	29.87('40)	59.25	60.25
Studebaker	6.50	29.50('45)	3.37('41)	25.87	28.50
Swift & Co	17.12	34.87 ('45)	17.62(*40)	32.62	33.62
Texas Co	34.50	55.00('45)	30.00('42)	50.62	50.62
TWA	8.75	54.25('45)	8.37('42)	46.50	47.75
Union Carbide	73.50	94.25('39)	58.00('42)	90.00	91.50
United Aircraft	32.00	53.37('40)	23.87 ('42)	25,75	26.62
United Fruit	72.50	106.75('45)	48.50('42)	105.75	104.75
U. S. Rubber	35.12	61.75('45)	13.50('41)	59.25	63.25
U. S. Steel	43.25	72.75('45)	42.00('40)	67.62	69.00
Westinghouse	*23.87	37.87('45)	*15.75('42)	34.25	35.00
Railroad Shares	20.07	07.07 (40)	20110 (42)	01100	00100
		404.00(145)	44.00(240)	02.10	88.00
Atch. Topeka & Santa Fe	21.00	101.00('45)	13.00('40)	87.12	88.00
Atlantic Coast Line	15.00	79.50('45)	9.62('40)	64.50	64.00
Baltimore & Ohio	3.87	28.87('45)	2.12('41)	19.62	19.75
Chesapeake & Ohio	29.50	54.87 ('45)	27.50('42)	50.87	49.75
Great Northern Pfd. **	19.25	55.75('45)	15.25('40)	49.00	49.62
Illinois Central	9.25	42.25('45)	4.25('41)	32.25	31.87
Louisville & Nashville	*21.37	60.00('45)	*19.00('40)	55.00	57.00
Missouri-Kansas-Texas	1.00	16.75('45)	.25('40)	13.50	12.75
New York Central	11.12	32.25('45)	6.62('42)	24.75	25.00
N. Y., Chicago & St. Louis	11.87	75.25('45)	8.87('40)	55.75	51.62
Northern Pacific	7.12	35.62('45)	3.75('40)	26.50	26.12
Pennsylvania	15.00	40.50('45)	15.00('40)	35.25	35.75
Southern Pacific	10.50	57.75('45)	6.75('40)	45.25	45.50
Southern Ry	12.37	52.50('45)	8.00('40)	42.37	45.00
Union Pacific	91.00	136.00('45)	57.50('41)	125.25	126.00
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^{*} Adjusted for subsequent split-up of stock.

^{**} Only preferred stock outstanding.

MARKETING

FM Fog Cleared by FCC

Communications commission gives U. S. manufacturers and broadcasters first outline of coming regulations. Abandons plan to reserve 20 channels, allots ten more to northeast section of U. S.

To give FM transmitter and receiving set manufacturers an immediate guide for their operations, the Federal Communications Commission has issued a "prospectus" of its forthcoming regulations that will govern this method of radio broadcasting.

radio broadcasting.

• Assign Reserved Bands—Reversing its earlier proposal to hold 20 FM channels in reserve for future assignment, the commission will utilize all 70 channels in the new commercial FM band (92-106 megacycles) and add ten more channels (106-108 mc.) to the thickly populated northeastern part of the country.

At the same time the commission disclosed that the country will be divided into two segments: Area I covering the northeastern portion, and Area II the remainder. Sixty commercial FM channels have been earmarked for metropolitan stations and 20 for community stations in Area I. No rural stations will be ticensed in Area I.

• Power Controlled—Under the new setup, contained in a summary of rules and regulations now being formulated, the FCC announced that the power of metropolitan stations in Area I will be limited to 20 kilowatts radiated power and antenna heights will be restricted to 500 ft. except in unusual cases.

to 500 ft., except in unusual cases.

This is the first indication that FCC plans to control FM power. It was pointed out that due to the necessity of grouping stations closely in the Northeast, power must be held down. Antenna height is limited because the higher the antenna, the more power

Community stations generally will be limited to 250 watts radiated power and antenna heights of 250 ft. Rural stations, which may operate in Area II, will be licensed to cover large areas and will be of high power, according to FCC engineers.

 New England Benefits—Broadcasters generally were agreed that the commission's original allocations, in which 20 channels were to have been reserved, would have deprived many New England areas of good service, due to heavy population and mountainous terrain.
 At hearings in late July and early August, the radio industry vigorously opposed the commission's plans. The new allocation is a compromise between the FCC's first proposal and those offered by broadcasters.

Another proposed regulation governing duplication of programs on standard and FM stations will not be adopted, the commission disclosed. The proposed rule would have made mandatory two hours daily of FM programs not duplicated on any other station. AM broadcasters opposed the rule.

 No Limit on Time—All FM stations will be licensed for unlimited time operation, but required to operate a minimum of six hours daily at the start. FM antenna sites must be ab by licensees (BW-Jul.21'45,p.34). commission served notice that it grant no FM license or renewal to person who "(1) owns, leases or come a particular site which is peculiarly, able for FM broadcasting in a particular area and which is not available for by other FM licensees; if (2) no et comparable site is available in the a or when (3) the exclusive use of a site by the applicant or licensee with that can be authorized in a particular area or would unduly restrain a petition among FM stations."

• Six-Station Limit—Multiple owners

Six-Station Limit—Multiple owner regulations of standard broadcast which forbid one ownership of a than one station in a single service a will apply to FM. In addition, the folias ruled that no single licenses a own or control more than six FM tions.

No rule was adopted regarding of ership of FM stations by licenses AM stations. When such a rule proposed, the broadcasting industry animously opposed it.

• Channel for Facsimile-The M proposes to encourage facsimile but



NEW USES FOR VERSATILE SYNTHETIC

Neatly combining product research with sales promotion, Comprehensing Fabrics, Inc., distributors of B. F. Goodrich Co.'s Koroseal, recently invite editors of 24 magazines to try their hands at designing with this syntheticable. The results as displayed in New York this week, while not all not could drum up business for Goodrich's war-expanded productive capacity to polyvinyl chloride, base material for Koroseal. House Beautiful's suggestion we "scrubbable furniture" (above) with cushions upholstered in Koroseal finand supported by extruded Koroseal strapping. Other exhibits include Glamour's luminous accessories for dark clothes closets, American Home's wall paper, and Esquire's lightweight golf bags.

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THEN employees get together, they talk shop. They pan a lot of little things, and some big ones.

his sort of session seldom hurts anyone. Mostly it as the air. After they get through with the grouching yadd up the good points.

tis something on the right side of the ledger if, when good points are added up, they include opportunity dreasonable freedom from worry about the future.

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This is why a sound pension plan is a good investment. the veteran employee, it brings a feeling of security. e rising youngster sees a chance for advancement ough the regular retirement of older men.

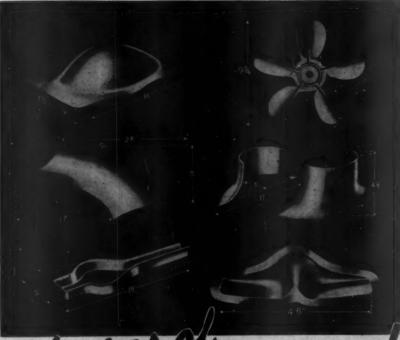
Conditions at present are very favorable to the instalion of a pension or retirement plan. Many organizans are adopting them. You can profit by discussing the John Hancock pension plans in detail.

John Hancock plans are long-range and broad in scope. They are flexible. They are adaptable to a variety of special needs and conditions.

For full information, consult the John Hancock agent in your locality or write the home office of the company.

John Hancock
LIFE INSURANCE COMPANY
OF BOSTON, MARRAGISESTTS

GUY W. COX Chairman of the Board PAUL F. CLARK



Shapes of things to come will your peace time products

WILL YOUR PEACETIME PRODUCTS
INCORPORATE
SHEET METAL
PARTS LIKE
THESE?

The INVESTIGATE

CECOSTAMP

for moderate runs or for finishing operations on long-run production. The CECOSTAMP is a high production, impact-type drop stamp designed to form metal parts from sheets of high strength and great resilience. The CECOSTAMP is in use in practically every airplane factory in the U. S., Great Britain and the U.S.S.R. Dies for the CECOSTAMP can be made quickly, easily and inexpensively from lead, zinc, Kirksite or similar metals that can be poured in sand molds. No matter how springy or resilient the metal, a blow from the CECOSTAMP results in a permanent set. Write for complete information.



CHAMBERSBURG ENGINEERING CO.

CHAMBERSBURG, PENNA.

CECOSTAMP

casting by permitting transmising FM channels when the channels not required for rural broadcasting Area II the band, 106-108 mc., has allocated to facsimile, until that so moves to its eventual place at 470 megacycles.

Rules and regulations covering a mercial FM broadcasting do not a the 20 channels allocated to educate stations (88-92 mc.). The educate broadcasting rules will come later. d \$2, 0,000,

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AND NEWSPAPERS, TOO

The Pullman Co. is not letting search for someone to buy it in an ance with federal court order (P Aug. 25'45, p38) unsettle its tradification of the same an ingratiating host.

Most recent refinement of its on now installed on 21 trains, is gath tribution of newspapers to Pullman sengers. The papers (1,300 daily) presented—with a bow—by porter.

So far, eleven Pennsylvania R.R.(cago-New York trains and ten train the Atlantic Coast Line, Baltimon Ohio, Chicago & Eastern Illinois, Q. Northern, Louisville & Nash Northern Pacific, and Southern Pachave this service.

Union News Co. holds the cost to rush papers from Baltimore, Chia New York, Philadelphia, and Wash ton to be put aboard at stops three six hours' travel from the respectities. Publishers in other cities their own papers aboard at out stations.

Negotiations to provide free pa for Pullman passengers on Chic Burlington & Quincy, and Chicas North Western trains are progres well

Some other roads frown on the because they fear it might offend or riders.

SAN DIEGO BAY PROGRAM

Dedication of the new 8,500 ft.s way on Lindbergh field recently 8 San Diego a tangible start on a kind development program of large din sions. The runway, built at a cost \$3,500,000, is the longest in the W It is one of the prominent topograph features of the San Diego Bay are

It is one of the prominent topograph features of the San Diego Bay are Eventually, it is expected, some \$1,000,000 will be spent on improveme of the harbors of San Diego Bay a Mission Bay for postwar expansion commercial shipping and for recreat

commercial shipping and for recrait An additional \$3,500,000 is to spent for auxiliary airports and facility and \$4,500,000 for piers, dresp dockage, and warehouse facilities San Diego Bay. Funds realized by city harbor department from rentals.

BUSINESS WEEK . Sept. 1

(the department holds all tidelands trust from the state) have averaged 80,000 a year for several years. These, th federal grants, will finance the

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San Diego voters recently authord \$2,000,000 of bonds to start a 0,000,000 improvement of Mission by harbor as a recreational area. The ity Planning Commission plans to acdie 1,000 acres of land around the land two bridges and lengthen to others, and to dredge a yacht har-

Harried Quarriers

Nation's stonecutters get so lany orders for tombstones, as result of higher wage levels, hat they can't fill them.

The nation's quarriers of marble and anite have more orders for tombstones an they can fill. This is not attributed the death rate but to the pay enclopes of the living. Thousands of aves went unmarked during the deression that got under way in 1929. Oday, Americans with money in their illfolds are bolstering their pride by mesting in tombstones for departed tembers of their families.

The Vermont industry reports that des of marble for tombstones currently exceed those of 1939 by more an one-third, and that the demand is creasing steadily.

Ceorgia reports a similar increase. In lbert County, granite has become a 10,000,000-a-year industry. In Tate, a, home of one of the country's largst marble industries, about a dozen ew saws were opened recently, and he Georgia Marble Co. plans a \$1,000,00 postwar expansion.

Source of the Increase—Backlogs of orers range from a few months to a year and a half, and the industry, doing the est it can to meet the demand, finds hat its best is none too good under ar conditions. That wartime employment and wage rates are responsible or the marble-granite boom is generally proceded.

Low-Priced Volume—Most monunents sell for a retail price of \$300 or
es, but there is also a heavy demand
oday for those selling between \$300
nd \$1,000. The War Productionboard has ordered that a special permit
aust be obtained for construction of
ny monument costing more than
1,000 at retail. While some such pernits have been granted, the volume of
he present business is in the lower
riced brackets.

LOW INVESTMENT COST-LOW OPERATING COST

An Answer to Your Questions on Materials Handling!

This new folder pictures the many advantages of Mobilift's engineering, operation and economy. It explains how Mobilift is designed to meet today's rapidly changing trends in materials handling. It illustrates how Mobilift is speeding up warehousing and production, reducing handling costs in various types of industries. Every executive who wants to lower handling costs should have this folder on file.

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MOBILIFT

Moves Materials like a Giant!

87 VAUGHAN MOTOR COMPANY . 835 S.E. Main St. Portland 14, Oregon

USINESS WEEK . Sept. 1, 1945

AMERICA DRINKS ITS WATER FROM PAPER CUPS — SAFELY



Only in America is safe, pure drinking water available everywhere . . . but only with single-service cups can we drink it freely without fear of cold germs and other infections. Wise management has found that it pays to protect factory workers' health and production efficiency by providing one of these four famous brands at each water cooler.





LOGAN DRINKING CUP CO. Worcester 5, Mass. PACIFIC COAST ENVELOPE CO.
Son Francisco 7, Calif.

Divisions of

UNITED STATES ENVELOPE COMPANY

Television Race

CBS rushes work on platransmitter for high-frequent broadcasts. It's counting on colo to sell the public.

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Columbia Broadcasting System in letting any grass grow under its in in the race between high-definite television in the ultrahigh wavelength and standard television (the only in now available to the public) in the lower wavelengths. CBS now expent to have a pilot transmitter for high frequency, color television operating from the top of New York Chrysler Building before the end of the year.

• Fight Against Time—The first la of the television race went to the Rai Corp. of America, with its heavy a vestment in standard television, whe the Federal Communications Commission assigned television six channels in the lower part of the radio spectrum (BW—Jun. 30'45, p90). CBS had ure that television be limited to the higher wavelengths when FCC reallocated the spectrum.

Now CBS is fighting against time apperfect high-definition television, whits great superiority of detail, below the industry and the public have a creased their investment in existing types of transmitters and receivers to the point where a shift to the top at the spectrum might be too costly. Can be gambling, as well as fighting, became the practicability of high-definition television has yet to be finally proved. The new transmitter will provide the crucia test.

• Two Transmitters—CBS engineers are building the pilot transmitter and the handful of receivers which will be used to test it. Another high-definition transmitter, which can be used for fulscale commercial transmission, is now being built for CBS by Federal Telephone & Radio Corp. (BW-Oct.21'4) 1955

As soon as the Federal transmitter is ready, CBS plans to spot two or three hundred receivers in key location around New York City—hotels (seven are interested), department stores, and such—comparing high-definition, color television with medium-definition black and white in full view of the public. The new transmitters can broadcast a either black and white or color, but CBS is counting on color to put in package over.

CBS is banking everything on thest tests to swing public support to the new standards. To prod opinion, the

BUSINESS WEEK . Sept. 1, 196

any can be expected to back these eneral hullabaloo mits Granted-While CBS is the

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broadcaster actually assigned space he spectrum for high-frequency ex-mental television, FCC has issued truction permits to three other panies: Allen B. DuMont Laboras, Passaic, N. J.; Philco Corp., delphia; Zenith Radio Corp., ago. Three companies have appli-as for construction permits pendwith FCC: Raytheon Mfg. Co., kago; North Jersey Broadcasting Co., kason, N. J.; Midland Broadcast-Co., Kansas City, Mo. Philco has issued 19 construction permits for rimental television relay stations the ultrahigh frequencies, looking

ard its projected relay network.

feanwhile, RCA is sticking to its demination to push medium-definition,

k and white television in the bethat this will more than satisfy a lic which has become avid for teleon during the war and won't want wait for the development of higher dards. RCA is hedging its bets, ever. An RCA transmitter on the pire State Building has been con-ting limited field tests with ultra-h frequency television. There is no gress report, but RCA has not ap-d to FCC for a regular experital license similar to that granted CBS.

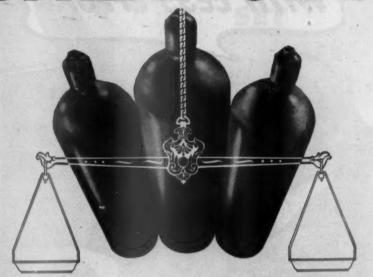
onstant Reminder-CBS likewise is ing safe, maintaining its established um-definition, black and white teleon broadcasts. But CBS, unlike A, will not expand this service unit is reluctantly forced to give up higher frequencies. In the meanthe audience of the CBS standtelevision station, WCBW, in New k City, is reminded on every pro-m that, "Our facilities and your reers are built on prewar standards, ag narrow transmission bands and frequencies.'

CA estimates that it will be six to months before it can put standtelevision receivers on the market any volume. CBS hopes that the manufacturers' row with FCC over ether new FM (frequency modulan) sets shall be built to receive two nds of the spectrum-the new band ich FCC has allocated to FM and old band on which existing sets rate (BW-Aug.25'45,p8)-will deset manufacture, keeping standard ision receivers off the market until ultrahigh frequencies have been ex-

CBS has developed two types of ultra-h frequency receivers and announces t it will issue licenses to all who nt them.

SINESS WEEK . Sept. 1, 1945

BALANCED



FOR MAXIMUM STRENGTH AND MINIMUM WEIGHT

There's a perfect balance between strength and weight in Hackney Cylinders. Due to the Hackney process of cold drawing, sidewalls have been kept uniform in thickness and all excess material eliminated. To further improve the physical properties, finished cylinders are subjected to laboratory-controlled heat-treatment.

Entirely seamless in construction, Hackney Cylinders are made to give lowest transportation costs, full protection to product, ease of handling and utmost resistance to transportation abuse.

Pressed Steel Tank Company engineers have a complete understanding of gases and their attendant problems. Their experience can be of help to you in determining the most practical and economical cylinder for your needs. Write today-there is no obligation.



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BUY MORE WAR BONDS



Visible Record Systems
Office Furniture
Bookcases
Stationers' Supplies
Filing Equipment

Fifth Network

Associated Broadcastin plans for coast-to-coast de include stress on public servi and bid for smaller clients

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Radio and the big networks as running a temperature over the law ing of a fifth national network month by Associated Broadcasting of Grand Rapids, Michigan. But a are watching with interested, if are cal, eyes the attempt by L. A. Verl president of Associated and owner station WLAV, Grand Rapids, to be into radio big time with a string of coast-to-coast affiliated or cooperstations. Goal of the fledgling chain 35 stations covering the major me politan markets.

• 16-Hour Fare—Beginning Sept.
Associated plans to broadcast 16 hadaily, stressing public service feats and offering a standard network fare news on the hour, nationally known commentators, sports events, and dabands.

Using the initials ABC, to which sociated claims a prior right destheir recent adoption by what use to the Blue Network (now Ameri Broadcasting Co.), Versluis has hup as affiliates independent statiom Baltimore, Boston, Buffalo, Denver, I troit, Los Angeles, Minneapolis, O land, Pittsburgh, Portland, Richma St. Louis, Salt Lake City, San Francis Seattle, and Washington, D. C.

 Other Relationships—Cooperating tions that have agreed to use which network programs they like, and lease studios to the network, are WI and WIND, Chicago, WMCA a WOV, New York, and WCKY, 0 cinnati.

Associated has been operating a per-occasion chain, with 196 off-and outlets, since January, 1944. It has a principally religious, political, and mical programs. Presumably the new work will continue to carry religious grams, which the major chains reluctant to accept as commercial in

• Discounts Up to 40%—Versluis of time at a base evening rate of \$4,000 hour, with discounts running up 40%. Thus he hopes to sell small businesses and organizations that sexisting chain time too costly or—at sirable hours—unavailable.

No sponsor names have been released a sponsor names have been released but Associated executives display a fidence that they have found a way the big stumbling block to any version chain broadcasting. This problem

o get enough advertising revenue y network costs. Network line es are disproportionately heavy they must be prorated among a number of stations. And, the sustaining programs the network the higher its program costs.

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malties Recalled—The radio indusemembers financial casualties in rattempts. The most recent was t Roosevelt, but he had a distined line of forefallers that included el Insull, Ota Gygi (BW—Sep.26 28), and Ed Wynn. Hence, trade ics wonder how Associated, stressonrevenue public service features ower-than-average rates, will make meet.

dio men see in the plans currently meed by Versluis and Associated possibilities than meet the eye. conceivably, in assembling a chain aller stations, the promoters might an eye on FM developments, to such a chain seems ideally suited.

COUNCIL TO STAY

s no surprise to anybody in the ading business that the War Adver-Council will continue into the var period. Created a few weeks Pearl Harbor as a liaison between profession and Washington (BW— 21'42p58), the council now sees as a possible permanent means of ling business generally to do a job ablic service—as well as public re-

will be a couple of weeks before the cil's postwar prospectus is anced. Of the many trade associations esenting advertisers, agencies, and a) which finance the council, two already voted to continue this supand the others are expected to fol-

ne job the council can be expected uck: It will not police the indusmorals and mores, leaving this functo individual trade associations and mment agencies such as the Fed-Trade Commission and the Food & Administration. Nor will the cil undertake to sell advertising, e, to the public.

OPTS GRADE LABELING

feway Stores, the country's second st food chain, can be expected to with lead of the largest, Great nic & Pacific Tea Co., and other ns, by adopting A-B-C grade labelof canned goods. Safeway will not lout for grades, will combine them descriptive labels, and will use a only to the extent that it consistency in the consistency of the consistency of the country's government grades a reliable to buying.

NESS WEEK . Sept. 1, 1945



SET NOW-

Toledo PRINTWEIGH Scales keep weight records right! No human mistakes in reading, remembering and recording can slip in. For modern control in receiving shipping, batching... get set now with Toledo PRINTWEIGH! Toledo Scale Company, Toledo 12, Ohio.

TOLEDO

HEADQUARTERS FOR SCALES

Giving you first-hand facts on Soviet Russia's geography - industrialization - resources - people

Exactly how great is Russia's wealth and power, and, in what direction will she develop? Drawing on careful study and actual observation, Mr. Cressey brings you the answers to these pertinent questions in a concrete, scientific evaluation of the Soviet Union's economic and human potential. Timely, factual, and written without political bias, this book will show you Russia's resources—the likely direction of foreign trade—the background of Herhetrogeneous racial groups—and the geopolitics applying to the security of the Soviet Union.

Just Published!

THE BASIS OF SOVIET STRENGTH

By GEORGE B. CRESSEY

Chairman, Dept. of Geology and Geography, Syracuse University 287 pages, 5½ x 8, 65 photographs, 22 maps, \$3.00

Drawing on his carlier volume, Asla's Lands and Peoples, in preparing this new book, the author has revised and enlarged the chapters on Russia in the earlier text and added important material on the pattern of Eurasia, the Soviet people and the geostrategy and future of the Union.

Here is a consideration of those environmental and human factors which lie behind the country's achievements and provide the basis for Soviet strength. The book gives special studies of population problems, climate, power, minerals, industrialization, regions, and a perceptive look into the geostratery of Soviet Russia and "heartland" and isolationist trends.

It asswers such questions as: What is the coonemic potential of the Seviet Union; do they have the recourses to dustinate American judgestrialization? What are the probable imports and experts of the postwar period, and what is the likelihood of large trade with the United States? In the "Heartland" a sesure citadel; can the Seviets become isolationists?



See it 10 days

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Send me Creosey's the Basis of Seviet Strength for 10 days examination on approval. In 10 days 1 will send \$3.60, plus few cents postage, or return book postpaid. (Postage peld on cash orders.)
Name
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Company
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LABOR

Conference Still on Paper

Unless agreement is reached on agenda soon, peace meeting of labor and industry may be delayed several months. C.I.O. leader wins point as Wallace is named to help plan the program.

The proposed industry-labor conference to preserve domestic peace is still a long way from reality. There is talk in responsible circles that it may not be held until November. Some skeptics doubt whether it ever will be held. There are many obstacles to be overcome in preliminary meetings.

• Taking His Time—Tipoff to Secretary of Labor Lewis B. Schwellenbach's thinking is his remark Aug. 24 on leaving the White House, where the subject was discussed with President Truman: "The conference can be a success if it is correfully prepared."

if it is carefully prepared."

Schwellenbach has no intention of rushing into a big meeting of business and labor leaders and risking a flop.

• What Murray Wants—Toughest problem to be worked out in advance is the agenda—limiting the discussions and objectives. The representation question also may cause some trouble. Both are scheduled to be aired at a preliminary meeting on Sept. 5

meeting on Sept. 5.

C.I.O.'s Philip Murray has made it clear that he expects the conference to deal with more than mere machinery for settling disputes and preventing strikes. "The elimination of industrial disputes must rest on a much sounder basis," he declared, characterizing the basis as "the fulfillment of our national objective of an expanding economy with full production and full employment."

A Murray agenda would include national wage policy, minimum wage legislation, the full employment and fair employment practices bills, the annual wage, and statutory protection for small business

 Wallace to Help—The C.I.O. chief won his first point when Truman designated Secretary of Commerce Henry Wallace to help Schwellenbach plan the conference. This will complicate matters. Wallace believes in speaking his mind and doesn't take roundabout ways of doing it.

It is a curious and revealing thing when one segment of labor regards the Secretary of Commerce as its foremost champion, rather than the Secretary of Labor. It accentuates the impression that the A.F.L. is closer to Schwellen-

bach, although the new secretary is trying hard to be impartial. (Schwellenbach used to be lawyer for the teamsters in Dave Beck's northwest domain.)

• Holding Program Down—With the possible exception of Wallace and his aides from Commerce, the government people interested in the conference will resist a program anywhere near as broad as Murray proposes. One official remarked, "If you threw all those controversies on the table you would never get through the first course."

The preliminary meetings, starting next week, will be used by Schwellenbach to seek agreement on a limited objective. By that is meant confining the agenda to means, methods, and criteria for settling or minimizing disputes.

• Bid to Lewis?—As far as representation is concerned, the problem is how far to go in bringing in independent groups, particularly in labor, without

making the conference unwieldy, e ing petty friction, and a resultant of tongues. It can be said with a ance that John L. Lewis will pating if invited, and it's very likely the will be. Snubbing him would on cate matters, but his presence won't plify things much. It would be first time Lewis, Murray, and API William Green sat around one table more than three years.

Regardless of whether the teleph unions and other independent pa are left out or brought in, there will more difficulties. The A.F.L. and C.I.O. were able to keep the independent of the Natoinal War Labor Ba but Schwellenbach has said he will least "consult" them.

LABOR BANS RESTORED

Wartime work permits under with more than 250,000 girls 17 year of and under took jobs in industrial plandolding government contracts will on Oct. 1. On that day, Dept. of Labars will again be raised against emplement of any girl under 16, and legal strictions on employment of girls multiple tract work. Girls now employed, he ever, will be permitted to keep the jobs under present working conditions.

Restrictions which go back into the also provide that no girl under 18 a work more than eight hours a day.



LABOR RALLIES FOR FULL EMPLOYMENT

While doors of United States Employment Service offices are thronged in would-be workers and the Senate ponders—with the rest of the country—in merits of the Full Employment Bill, men and women all over the country—is stage their own rallies for full employment. In Chicago (above) C.I.O. works assemble before the start of a mile-long parade through the Loop, urge the President Truman use unexpended war appropriations for severence pay.

cri



How can you judge a business risk?

SHOULD a company be judged, as a financial risk, by a careful computation of its assets and liabilities? By an accurate measurement of its past performance and future possibilities? Or should it be judged by these and more—by the character and ability of its management?

'During the depression, a large Midwest manufacturing concern faced a crisis in its career. In the company's own words, it was suffering—along with many other business concerns from "an oversupply of manufacturing facilities and debt, and an undersupply of sales and credit."

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In the midst of the crisis, the company found itself, one morning, with a large note called for payment in exactly forty-eight hours. The holder of the note agreed to extend it under conditions that the company felt were prejudicial to its future. After debating the question for twenty-four hours, the management decided to seek other financial aid.

They came to the Bank of the Manhattan Company. The Bank had to act fast. Recognizing that most businesses were in depression difficulties, the Bank looked at the record, found that the men in charge of the company's destiny were men of character and ability—and granted them a loan in time to save the situation.

Today, that business—P. R. Mallory and Company, Inc. of Indianapolis—is completing thirty years of progress in specialized metallurgy, electronics, and electro-chemistry. It has become a recognized leader in its particular markets. Its techniques, experience, and plant facilities, proved invaluable in developing many critical items for the war-production program.

Meanwhile, the friendly relationship established between the company and the Bank of the Manhattan Company, has continued and grown even closer with the years.

BANK OF THE MANHATTAN COMPANY

New York

THE LABOR ANGLE

Redivivus

Just over four years ago, when the government seized the properties of the Federal Shipbuilding & Dry Dock Co. to enforce the "recom-mendations" of the National Defense Mediation Board, free collective bargaining ended in America. For all practical purposes, what an employer and representatives of his employees could "agree" to from then on was determined by government policy.

Now, the machinery of collective

bargaining, never developed to a smoothly efficient operation and stiff and rusted from four years of disuse, is beginning to turn again. For good or for evil it is the only device we have for filling the labor relations-void created by the National War Labor Board's moves in abdicating its wartime functions.

Apprehensive

Every thoughtful employer has already pondered the significance to himself of the changed pattern which the war's and NWLB's end will bring to the labor front. No matter' how advanced his preparation for dealing with it, however, or how eager he may be to take advantage of what may appear as an imminent opportunity to have a showdown with a union, apprehension, in greater or lesser degrees, is the one com-mon denominator in management minds as the labor outlook is surveyed. There is general appreciation of the fact that industry will be subjected to severe trials as an organ-ized labor movement, bigger, more powerful than the nation has ever before known, throws off wartime restraints and makes for its goals of higher wages, union security, and full employment.

And for bridging the differences already apparent in outline, for reconciling the inevitable clash of interests, for establishing some workable relationship between labor and management, there is only collective bargaining.

Economics

In the present reversion to collective bargaining, management, which has always been handicapped by a quantitative and sometimes by a

qualitative lack of professional industrial relations executives to match the professional labor leaders, and which has lately been handicapped by government support for labor, be-gins with a further disadvantage. While some of the forms and considerations which are elements of collective bargaining survived in one fashion or another during the war period, the basis on which employers traditionally fixed their position in collective bargaining negotiations has been virtually nonexistent. This is, of course, ability to pay. Ability to pay has not been a consequential factor in determining wages or conditions of employment for four years, and labor, delighted that it was a war casualty, will resist giving it much weight now that the war is over.

If the unions are successful in largely confining the determinants of labor costs to area standards, industry standards, the cost of living, and the extent of labor's organized strength, many firms face a highly precarious future. Indeed, until ability to pay is restored as the central economic consideration in the labormanagement relationship, we are operating under something other than the familiar business enterprise sys-

First

Management's immediate task in collective bargaining, therefore, is to reestablish the status quo ante even before establishing defenses against new union powers and demands.

But serious as this problem is, the gravity of the situation can be exaggerated. In going all-out to restore the ability-to-pay principle, over which there is no disposition on management's part to accept a com-promise, employers will be learning new techniques and refurbishing old ones which will prove invaluable in equipping them for bargaining over issues which they may consider only a little less vital than totals on a balance sheet. They may also find that the relative weights which they assign to such matters as the hourly wage, the guaranteed annual wage, and the all-union shop have, in the process of fighting for something that is both a principle and a requisite of continued existence, undergone subtle but important changes.

between 10 p.m. and 6 a.m., or trary to state laws governing home work; that no girl under 18 that employed in any job hazardous in m or dangerous to health; and that m under 18 shall receive less than minimum hourly pay set by federal

U. S. Pulls Out

Government withdraw from seized facilities les NWLB without any device enforcement of its orders.

Government withdrawal from pla mines, and facilities seized by each order was well under way this w This virtually leaves the National Labor Board with nothing to stand but the board and its best friend, I nomic Stabilization Director Wil H. Davis, know they have no cho practically speaking.

Army Sets Deadline-The Navy ready to pull out overnight from plants it held (Goodyear in Ab United Engineering in San Franci and about 100 machine shops in same city). The Army proposed a de line of Aug. 31 for withdrawing in plants it had seized. Davis has no li for hard and fast deadlines but any on Aug. 31 as a date to shoot for.

President Truman, on Davis' recomendation, revoked 26 seizure on and amendments, and directed the toration of the properties "as soon practicable." This gave Davis as a hand as he needs to enable him look at each case individually, tie up loose ends, and make a clean geta • Varied Facilities Involved-Actu the government agencies, with the sible exception of the Interior De which held five oil companies and coal mines, cannot get out overnight

The ODT, which operated more to 80 midwest trucking companies, its own books and accountants, needed at least a few days to make clean break. It is letting go of Toledo, Peoria & Western Rain after more than three years, but Illinois Central, just taken last we was not among those ordered and quished (page 99). sellin

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The Justice Dept. is taking an act interest in the seizure terminations. it is going to defend claims for the s few years, the government lawyers w to have a little ground floor evidence

• Repercussions Expected—The La
Dept.'s conciliators have been look over the field and examining the car of the original disputes which resul in seizure. Davis wants as many m., or ng houn 18 shall ous in m that no ss than federal l

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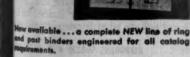












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HE makes "Fact-Power" fortify "Sales-Power"

To develop and maintain maximum sales, the experience and skill of your selling organization require "Fact-Power" such as the Remington Rand Systems Technician is highly qualified to provide.

This man can lend you skilled aid a devising fast, accurate and positive sales control by individual account, by territory and by branch office. You'll have visible records that point out when, where, why your men or somebody else's are get-ting orders...the live facts needed in

directing sales for maximum profits.

But why not use the full scope of this man's resources? Let him recommend vertical filing systems best fitted to your method of operation, point-of-use fire protection for irreplaceable records, suitable office furniture, and ring or compression catalog binders that put extra punch in your sales presentations.

It obligates you not at all to see the many ways in which "Fact-Power" can save time and money. Plan now to fortify your "Sales-Power." Call our nearest Branch Office-or write us in New York.



HE helps sales leaders put maximum sell" in postwar catalogs. Effective merchandising of current products and newlines calls for attractive-looking catalog binders that open flat for easy display, withstand long, rugged service and make sheet-changing easy, fast and certain. To meet these requirements in every way, a complete new line of ring books have been added to the vastly improved Remington Rand compression binders.



HE helps to keep stores stocked with well-known food brands. One prominent company required speed and accuracy in providing its field force with monthly sales figures. They eliminated weeks of delay by posting sales to Kardex Visible and photographing results for salesmen on Dexigraph machine. More productive calls followed. You too can save time, increase volume by directing salesmen with marginal comments on Dexigraphed Kardex sales record.



HE offers complete new study needed now in shaping and carrying out sales plans. 96 pages, 15 concise illustrated chapters full of success-proven ideas. Contains results of exhaustive research. Shows part played by facts visibly charted for easy analysis and use ... the three fundamental controls required for postwar sales management . . . new sales presentation methods.

"Graph-A-Matic Control for Sales Management" is being used and praised by leading executives. It's free on request.

SYSTEMS DIVISION INGTON

315 Fourth Avenue, New York 10, N. Y.

Said the Office Manager to the Treasurer:

War regulations taught us to save time and
money with paper they made us use.

Said the Treasurer to the Office Manager:

These wartime letter and record papers do
the job better because of their cotton content.



A paper made from new cotton fibers lasts longer and wears better than ordinary paper. In letter-heads, the cotton fiber permits more erasing and tells customers that yours is a quality organization. For keeping records, these papers are better because they stand more use and abuse, and

they last longer . . . So when war restrictions go, preserve this wartime gain. Get the fact and feel of quality by insisting on cotton fiber papers. To get the finest in the cotton fiber field, specify PARSONS, which specializes in stationery and record-keeping papers for modern business.



PARSONS PAPER COMPANY • HOLYOKE, MASSACHUSETTS

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It is recognized that next to notice can be done at Montgomery Ward the conciliation line.

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• Ward Parley Asked—C.I.O.'s Unin Retail, Wholesale & Department Sine Employees last week end sent a conmunication to Sewell Avery, Montgon ery Ward's chairman, requesting a conference looking toward writing a nocontract. Union leaders admit that the were simply satisfying the tradition amenities; they expect no change in Avery's well-known position.

Concluding that peaceful persuasing promises little in the situation, for C.I.O. is making plans to call a new strike against the mail-order house. There is some question whether it can get Ward workers to respond now a effectively as in the last walkout called Still Await Back Pay—The union had not flourished under the Army's openation of the mail-order properties. Westers are still waiting for the \$1,342,000 in back pay awarded by the National War Labor Board and, while the union has had the check-off and maintenance of membership since last June, it has been able to do very little bargaining with the Army management.

with the Army management.

A strike in Wards will have as it basic objective the winning of some form of union security—presumably maintenance of membership—and, as a nedemand, a 15¢-an-hour wage increase. It is reasonable to assume that the strike will get support from a broad section of the industrial union movement.

• Trouble in South—An immediate strike is promised, too, by the C.I.O. Textile Workers when the Army is pulled out of the Mary-Leila cotta mills at Greensboro, Ga., and the Garney Mfg. Co., Gaffney, S. C.

The fight on union security at Gainey has lost none of its bitterness. The union, suspecting that the Gaffney plan might be closed, is asserting that production there under the Army went up one-third with few additional workan.

NWLB Windup—More signs on the NWLB liquidation: The board has, it effect, tossed 3,000 disputes back at the principals and told them to be collective bargaining again since the new wage policy gives them more room to operate (BW—Aug.25'45,p15).

As alternatives, the board suggesterness of the second sugg

As alternatives, the board suggests either acceptance of hearing officers's ports as final decisions, voluntary attraction, or a streamlined procedum which would eliminate appeals from any findings of an NWLB panel, is gional board, or commission. Finally, the NWLB said, if nothing else, please try to settle some of the issues and the board will do what it can with the ret

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Fight between engineers firemen is back of federal ure of the I. C. Unions seek trol of postwar jobs.

e Illinois Central R.R. remained er control of the Office of Defense sportation early this week as efforts much in Washington to iron out ances of the I. C.'s Brotherhood comotive Firemen & Enginemen, h called off a scheduled strike last when ODT took over.

therhoods Battle-Public states confused the threads of the d controversy. The firemen reted that they are fighting the I. C. agement, not the Brotherhood of notive Engineers. Management reed a "false impression" that it is g trouble with its employees. The f L. E. said little, significantly of-no help to its brother organization. back rooms a tussle is brewing een the two I, C. rail brotherhoods top control of postwar jobs-and bership. Recent recommendations wing investigation by an emergency d appointed by the President left dispute deadlocked.

ite Over Old Rule-One key to difficulty lies in a rule, written into C. engineers' working agreement 911. This rule gives the engineers, control what names go on the neers' extra board or working list, say-so as to when qualified "pro-



F. Kirk, Office of Defense Translation's western railroad director, named manager of Illinois Cen-Railroad when, in the face of a e threat, government took over.

INESS WEEK . Sopt. 1, 1945



HOW about moving the assembly line to Florida or California next winter? Think

any of the workers would object?
Well, the next best thing is installing Wing Revolving Heaters right now. For when winter weather starts chilling the air around your plant, your workers are going to feel mighty glad you installed the heaters with the revolving discharge outlets. Because the gentle air motion created by the constantly changing direction of these outlets brings a sensation of fresh, live, invigorating warmth to workers, a sensation of summer outdoors-perhaps not Florida or California, but something pretty close. This effect on the workers is a great aid to production, which applies all year round, for in summer, with the steam turned off and the fans on, these revolving discharge outlets provide a cooling effect that is equally effective in accelerating production.

Follow the example of many of the country's leading industrialists—install Wing REVOLVING Unit Heaters.

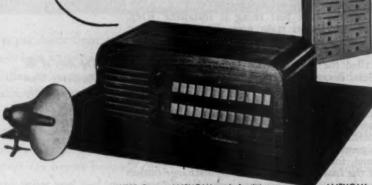
The story of the Revolving Unit Heater is told in Bulletin HR-4. Write for a copy.





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The engineered excellence and high quality construction of **AMPLICALL Paging and Two-Way Communications Systems is well** known to the thousands of industrial firms who use them. That, combined with AMPLICALL's multiple features, flexibility of design to meet Reconversion Changes and low operation cost is good reason for its preferred rating. Find out now how AMPLICALL can get ... things done faster, more accurately for you with



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efficiency.

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AMPLICALL Sound Control Unit

Electroneering is our business

RADIO ... RADAR ... SOUND ... COMMUNICATIONS Rauland employees are still investing 10% of their salaries in War Bonds The Rauland Corporation . . Chicago 41, Illinois moted firemen," who move up to a neers' jobs as needed, shall establish date of seniority as engineers.

The I. C. is one of only half a do major roads that do not observe standard firemen's rule which is of the 1913 Chicago Joint Work Agreement. This 1913 rule is what I. C. firemen say they want to enfor It provides that a fireman's senior date as an engineer begins the day first serves as an engineer, does not me tion the extra board.

Firemen's officers say that in a Chicago district only 30 of 110 m moted firemen on the I. C., most them having served as engineers for long time, have been placed on the gineers' seniority roster since 1937

The emergency board suggested to the 1913 firemen's rule now in e on most roads be thrown out in far of the 1911 engineers' rule.

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• Want Lower Minimum-Another controversy hinges on a 1931 rule terpretation, formally written into f engineers' working agreement, but practiced by the firemen. This is pretation lets the local engineers' cha man decide minimum and maximum monthly mileage engineers shall run; of the I. C., this is 3,000 mi. to 3,800 m for engineers in freight service.

Firemen, avid for the higher pay n want the minimum reduced to 24 mi, to allow more promoted firemen earn wages as engineers-and to he a larger number of promoted firem on the engineers' extra board. T would prevent any of them bei pushed back to the ranks of the fa men (to compete for firing jobs) whe ever he fails to run 3,000 mi. in month as an engineer.

• Compromise Plan-On this point emergency board offered a comprom Let the firemen specify the minim earnings that a promoted fireman me roll up in a month before he goes he to firing, and let the engineers set the own limits on full-time engineers. I engineers did not like this, but grid ingly said they would accept it.

The situation that led to this at strike and actual federal seizure been festering for eight years. In 193 the I. C. held its first examination four years to qualify firemen as one neers. The firemen protested to management against the engineer's then and also in 1941. In the about of any showing that a man or men been deprived of work opportunity, management disclaimed any power change the situation.

Last February the firemen voted strike after the Railroad Mediat Board had ruled that their compl (filed against the I. C.) was outside jurisdiction.

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Mediat compl outside

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Mine union's complaint members got no pay for the nium content of vanadium is heard by U. S. grand jury.

ne angle of the mysterious anti-investigation being conducted by eral grand jury in Denver into the duct of the two principal U. S. proc-rs of vanadium (BW-Jul.14'45, , U.S. Vanadium Corp. and Vana-Corp. of America, was clarified week by furious complaints from trict 50 of the United Mine Work-The union protested that diggers of ore had never received any payt for its uranium content.

eiled in Secrecy-Carnotite ores of em Colorado and eastern Utah tain vanadium, radium, and uran, the latter being the vital element he atomic bomb and one that may day provide fuel for an atom-powd industry (page 57). As with all er elements of the atomic bomb exments, the production of uranium been, and in some respects cones to be, veiled in secrecy

This area is the principal U.S. source uranium. The carnotites are found cattered lenses and pockets of a sandes. Some claims are independently ed. Some are leased by the two panies to miners who are paid for on the basis of vanadium content. nion's Contention-District 50 comins that the companies closed down ir own mines and continued to purse ores from independents when vanadium supply became sufficient, continued to buy only on the basis the contained vanadium, with a lower it of 2%. Somebody therefore got the uranium values, the union conds, and it wasn't its members. Ore gers say they were not told that the nium in the ores had any value.

L. Robison, general superintend-of the U.S. Vanadium Corp. at an and Grand Junction, Colo., d his company felt it had "nothing apologize for." "We are handlers vanadium, not uranium," he con-ued. "There never has been and is now any general market for this nent, and, except for current govment demand, there is nothing to

with it except to stockpile it."
Not in Uranium"—In further clarifion of his company's position, Rob-

We are not in the uranium business do not have any interest in that tal. I feel that producers have been

EVEN JUNIOR CAN'T DENT IT -IT'S MADE OF ROEBLING STRIP STEEL! BETTER TELL SALLY TO GIVE UP TOO-THAT'S ROEBLING ELECTRICAL WIRE

> Roebling produces every major type of wire and wire product...house wire to telephone cable ... bridge cable to wire rope ... fine filter cloth to heavy grading screen...strip steel and flat wire to round and shaped wire... all Roebling products. All the result of over 100 years of wire specialization. John A. Roebling's Sons Company, Trenton 2, N.J.





The truck-trailer

that steers from both ends

EVER see the fire department's long hook-and-ladder come clanging down the street with a "co-pilot" perched high on the back to help steer it around corners?

We have a thirty-foot over-thehighway trailer unit that operates the same way—only it doesn't need an extra driver!

An amazing device, the Hoobler Undercarriage, makes this possible. Installed on a semi-trailer in place of the conventional tandem axle, this new undercarriage

does just about everything except think for itself (and some observers swear it does that!).

Besides permitting commercial trailers to make square turns in close quarters, the Hoobler Undercarriage lowers cost per ton mile, eases driver fatigue, reduces running time, saves tires and permits a tremendous increase in pay load.

Of course you may never be in the market for a trailer undercarriage. But you may be able to use the designing and fabricating skills which brought this new invention to perfection. Perhaps a few hours spent with our engineers will show that your products, too, may be improved and perfected — manufactured faster

and more economically the Union Metal way. Your inquiries are invited by The Union Metal Manufacturing Company, Canton 5, Ohio.

BUY MORE WAR BONDS and keep them treated squarely. In case of extremely difficult access conditions to mines have had special premium prices at the general scale of prices has been at that some of them have made quilot of money.

"In many cases where they be trucked in ores not quite coming in our 2% minimum standard, we is made set-aside arrangements by whithey could bring in trucks of richer and receive payment on the vanda content of the whole. We have course gone on buying the ore on a vanadium content basis, because the is all we are interested in."

• Government Agents—U. S. Vandin Corp. built a mill in 1940 to mill a vanadium tailings for uranium, a more recently the government has be another uranium mill in western Corado. Robison said, however, a security regulations still prevent gins out news of those mills. Both U. Vanadium and Vanadium Corp. America have acted as government agents in buying ores and concentration.

In Denver antitrust officials on firmed the fact that the diggers' charwere one cause of the grand jury's hing called, but would say nothing as save that the investigation is nowice near complete.



RUBBER TO SHAPE METAL

By using a solid 273-lb. chunk of hat resistant synthetic rubber in the 60 ton hydro-press at its San Diego a perimental factory, Consolidated Vutee Aircraft asserts, it speeded up production of magnesium aircraft part and cut costs. Developed by Units States Rubber, the compressed part flows into all irregularities of the or and forces magnesium sheet to the desired form. When pressure is a leased, the rubber resumes its shape



UNION METAL

Craftsmen in Steel Fabrication

What do you know about your insurance?

O you know whether your fire insurance covers damage to concessions of guests or servants? Can you say, offhand, whether your orglary insurance also covers damage caused by burglars? If unable a contact your agent in an emergency, have you a written, complete ecord to tell you whether you are

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fully protected? You need this free U. S. F. & G. Personal Insurance Audit Book!

Clear, simply-worded, and with each hazard illustrated, this new Personal Insurance Audit Book enables you to make your own complete insurance audit. It provides a permanent record of property value,

amount of present insurance, premium rates, expiration dates, etc., thus giving you your fire and casualty insurance picture at a glance. To obtain your copy, simply fill out and mail the attached coupon. Your Personal Insurance Audit Book will be delivered to you promptly. Mail the coupon today.

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NORTH CAROLINA-STATE OF Progress!

With an unpleasant job behind us, North Carolina turns from the destruction that is war to the arts of peace to again devote its full energies toward the building of a more progressive economy. Few states can equal the record achieved by North Carolina in the past two decades. In commerce, in industry, in agriculture; in education, in government and in social progress, the Old North State enjoys a justly earned reputation for being "out in front."

The future beckons with potentialities far greater than anything achieved in the past. A state of vast resources populated by a progressive and friendly people spells opportunity unlimited for North Carolina.

The Seaboard Air Line Railway, like North Carolina, made its full contribution to the winning of the war. As an integral part of North Carolina, the Seaboard joins its friends and neighbors of this great state in the call..."Back to Progress."



How Old Is Old

With 40% of labor for in the over-45 bracket, industrial must answer that question to as postwar weeding-out beginning.

The peacetime employment women, youths, and veterans has he a subject of prolonged discussion, a has had important headings in property of the worker in the postwar labor market been largely neglected until recent Now it is getting some concentratention. It has been brought a sharp focus by studies just made as able by the U. S. Dept. of Labor.

• 40% Over 45—Census figures and that approximately 20,000,000, or destroyed in the civilian labor force, are 45 years of a and over. Nearly 3,000,000 are on 65, above the pension retirement a set by the Social Security Act.

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War manpower needs brought a estimated 2,000,000 older workers by into jobs. Many thousands of actual retired workers returned to gainful e

ployment.

• Fear Idleness—Many of the 20,00 000 who shade 45 are wondering a with good reason, whether they a their contemporaries won't bulk law in the breakdown of postwar unemporaries statistics.

The prewar trend showed a star reduction of the proportion of old workers in industry. In 1920, 34% at the population which was over 65 m gainfully employed; in 1930 it m 33%; in 1940, 23%, reflecting start of old-age pensions and a crowle labor market in which employers on set and stick to what they believed we high employment standards (BW-Fe 5'44,p120).

• Forty-Plus Alumni—The 1930-194 decade which saw the weight of the opression bear with heaviest incidence the older worker witnessed the grown of many organized efforts to sell to values of seasoned personnel to ma agement. This was the period when a most every large city had an actime "Forty-Plus Club" (BW-Aug.1538 p.30). During 1942 and 1943, a main ity of the "Forty-Plus" associative ceased to function, but 16 of them a known to be still operating and may of the others maintain their organization by holding regular "alumni" metrons.

Roland R. Darling, director of the pioneer Boston club, who is now has of the Veterans Reception Center of the Greater Boston Community Community

tains an extensive correspondh leaders of other "Forty-Plus" He reports a revived interest and plan is being held ready for n when it is needed again. d Success—The "Forty-Plus" nt and other attempts to hold a nate place for the older worker pidly constricting labor market only limited success because supply surfeit provided no econcentive for employers to exspecial usefulness of the over-

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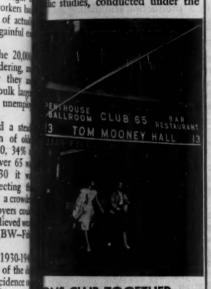
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insatiable demand for labor crethe war has changed all that, and language of the personnel exe come the words geriatrics edical care of older people), gegy (the study of the aging procent of the aging process) which ted anatomist, Dr. E. V. Cowdry, consultant to the U.S. Public Service, describes as a "union of best in medicine and sociology, dowing a new type of public

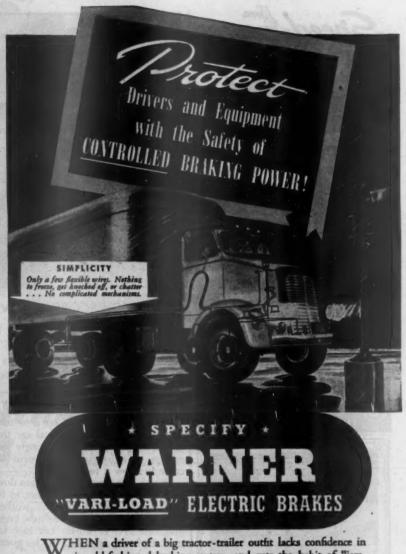
Infallible Index-Authoritative studies, conducted under the



ONS CLUB TOGETHER

better to fraternize, three New C.I.O. unions have joined forces erate Club 65 for union memand their guests. Launched priy by Local 65 (Wholesale & house Workers), the club is run om Mooney Hall Assn., of which Retail Employees and the Win-Trimmers & Displaymen locals ilso members. The association, club privileges-its facilities incafeteria, restaurant, classesen to A.F.L. and C.I.O. unions.

IESS WEEK . Sept. 1, 1945 105



its old-fashioned braking system, and gets the habit of "jamming on the brakes" to slow up or stop—it means plenty of wear and tear on tires, braking mechanisms and rolling stock. And often emergencies which call for such drastic application of brakes results in major damage due to accidents.

The proved way to AVOID all these situations, is to equip with Warner "Vari-Load" Electric Brakes — with braking power under instant and complete control at all times. Drivers can pre-set the brakes on the trailer to fit both road and load conditions. Thus all stops - emergency as well as run-of-the-road - can be made confidently and without undue strain on the driver or equipment . . . protecting himself and cargo, and preventing loss of time spent on maintenance work, or costly delays due to wrecked equipment.

On all future trailer purchases, specify Warner "Vari-Load" Electric Brakes—world-famous for safety, simplicity, and dependable, efficient, trouble-free performance.

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Makes Light Work Out of Tough Sweeping Jobs

Steel back of Speed Sweep brushes is the basis of unique construction for faster, easier, better sweeping. Block is ½ usual size—easier to handle. Tufts of longer, better fibres sre more compact—provide "spring and snap" action. Handle instantly adjustable to height of sweeper—reduces fatigue and strain. Speed Sweep brushes are built to outlast ordinary brushes 3 to 1.

FULLY GUARANTEED

Since Pearl Harbor Speed Sweep brushes have proved their superiority in many thousands of factories under varied conditions. They are unconditionally guaranteed to meet your requirements. Prompt shipment on AA-5 or higher priority rating. Write for styles, sizes, and prices today.







FOR A HIGH SCORE IN SOVIET OIL

In Soviet Russia's new Five-Year Plan, expansion of the oil industry high on the agenda (BW-Aug.25'45,p115). In the rich Baku oil field workers (above) study their scores in a production-stimulating contest device to help the Soviet put oil output in step with its expanding contest.

pressure of wartime necessity, have revealed that chronological age is no more an accurate index to physical age than it is to mental age. An increasingly wide section of industrial management has come to know it too.

Wartime experience has broken down at least the psychological barrier to the regular employment of older workers. In the competition for jobs now beginning, the over-40 worker can look forward to being appraised on his merits as never before.

• Fewer Interested—While the older workers left in the labor market can expect less discrimination against them, industry can expect a sharp decrease in the number of older workers interested in competing for available jobs.

As early as the close of 1942, 600,000 workers eligible to receive benefits under the old-age pension system were not claiming their payments because of being employed in covered employment. An undetermined additional number took their benefits while they worked in employment not covered by the law. Further, by the end of 1943, benefits were in suspension for approximately 114,000 dependent beneficiaries because they, or the persons whose wage records constituted the basis of their benefits, were at work in covered employment.

The trend continued in 1944 and 1945. In 1944, only 326,000 applied for old-age assistance—less than half the

number who applied in 1940.8 given were (1) increased emplo (2) increased retirement and subenefits; and (3) substantial men's dependency payments.

• Dropping Off—In addition number holding unclaimed equit der the insurance system, may 2,000,000 persons were receiving assistance under the Social Security gram at the end of 1944. This sented a reduction of 83,404 personance of the previous year. The ure is of considerable significance the number of the people population 65 years of age or of creases by approximately 200,000 year and government estimates an increase of old-age assistant amounting to 50,000 a year.

The fewer and fewer person were eligible for old-age aid of a —eligibility is lost for as long a worker is employed in covered on ment when he is over the retirem —is a development flowing direct the war and the economic and incentives it provided. With the centives inoperative and the lab ket returned to its normal compastate, a substantial number of persons are retiring. Private penson grams will ease out another sizable of them.

• From 65 to 60?—By lowering to cial Security retirement age to



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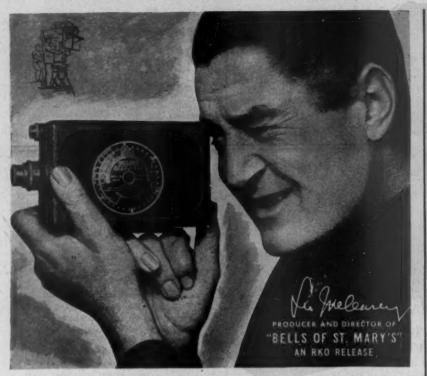
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"HOW TO MAKE

Finer Home Movies"

by Lea McCarey, Famous Hollywood Producer and Director

E'VE learned in the studios that it takes fine equipment to make fine movies. In personal movies as in professional movies, the pictures can be no better than the camera.

"Ever since the industry began we've looked to Bell & Howell for fine studio equipment. And we find the same perfection in B&H Filmo Cameras for personal movie making."

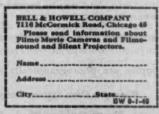
Filmos are so easy to use that even beginners get superior results, right from the first. Just sight, press a button, and what you see, you get—in full, natural color or in sparkling black-and-white.



TAKE THIS FIRST STEP NOW. Send the coupon today for information on Filmos to be available when our war production permits. Bell & Howell Company, Chicago; New York; Hollywood; Washington, D. C.; London.

There's a Filma Camera Exactly Suited to You

Shown here is the improved Filmo "Sportster," an 8mm. all-purpose home movie camera.Mr.McCarey's camera is a Filmo Auto Load, which uses preloaded 16mm. film magazines.



OPTI-ONICS—products combining the sciences of OPTIcs • electrONics • mechanics



SINCE 1907 THE LARGEST MANUFACTURER OF PRECISION EQUIPMENT FOR MOTION PICTURE STUDIOS OF HOLLYWOOD AND THE WORLD development confidently espessions are will become eligible in sion benefits and the number of job seekers in the older works would be pared still further.

J.&J. JOB IDEA WORKS

ESS

The 750 employees of the Cal Division of Johnson & Johnson a cago who were notified on Aug. I they were without jobs (BW-h'45,p94) had by this week to nearly 1,400 job offers as a restheir employer's efforts.

Johnson & Johnson mailed a chure and placed display ads a newspapers addressed to "All Cs employers and company executive cerned with making profits." I persuasive message pointed out to was forced to lay off employers were the "cream of the crop" a local labor market. It noted that employees have been awarded Army-Navy "E's" for outstanding duction achievement; that their over record was only 5.61%; that absentee rate ran at the well-below age rate of 4.37%; that they he unusual safety record; and that "ficiency of their work has enabled company to make gas masks at all cost than any other American maturer."

J.&J.'s blanket recommendate its 750 employees has been en enough to get each one of them job offers.

SPAT AT WILLOW RUN

A jurisdictional fight between A building tradesmen and mainten workers in C.I.O.'s United Auto Wers flared last week at the Willow plant, formerly occupied by the Motor Co. for its bomber productions.

Motor Co. for its bomber productional fighting in the Detroit area the agreement between the two as in July (BW-Jul.7'45,p106). It this plan all jurisdictional outbrather reconversion program are to be ferred to a carefully planned adjusted to machinery set up by the two

Ed Thal, secretary of the De Building Trades Council, said that C.I.O. maintenance workers chast A.F.L. men from the plant. They engaged in dismantling maching Brendan Sexton, president of U.I. Local 50, denied that there had any violence.

The dispute is over which union engage in tasks of machinery is tion and removal. The question in a series of conference

E INTERNATIONAL OUTLOOK

ESS WEEK

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Sept. I

In the first instalment of the British Labor Party's five-year economic program (BW—Aug.4'45,p15), only coal mines and the Bank of Englandwere marked for nationalization.

It may be at least a year before the government turns to transport, and several years before it tackles the multifarious iron and steel industry and brings gas and electricity under a National Fuel & Power Corp.

Legislation is expected in October giving the Bank of England a new charter as a public corporation. Government control is not likely to be more stringent than during the war, and Lord Catto will remain as governor. And in general, retention of Lord Keynes as chief Treasury adviser to the bank indicates a continuity in bank policy.

Transformation of the coal industry, long a sore spot in the British economy, will be more extensive. Britain's 1,900 mines operated by 1,135 coal companies are to come under a National Coal Board, with regional departments, in charge of production and distribution. Compensation to owners is likely to be in the form of shares in the new coal board. Chances are the government will pick personnel for the board from the collieries, which means that present management will not be completely displaced.

Other items on the Labor government's program include:

- (1) Repeal of the Trades Disputes & Trade Unions Act (1927) which will mean that sympathetic—and, therefore, general—strikes are legal and that trade unions can levy upon members for Labor Party contributions;
 - (2) Implementation of the coalition government's education bill;
- (3) Immediate inauguration of a national health service and, after the new year, establishment of a complete social security system;
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There has been increased interest in setting up such projects in Latin

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"HOW TO MAKE

Finer Home Movies"

by Leo McCarey, Famous Hollywood Producer and Director

E'VE learned in the studios that it takes fine equipment to make fine movies. In personal movies as in professional movies, the pictures can be no better than the camera.

"Ever since the industry began we've looked to Bell & Howell for fine studio equipment. And we find the same perfection in B&H Filmo Cameras for personal movie making."

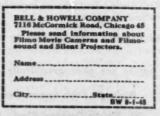
Filmos are so easy to use that even beginners get superior results, right from the first. Just sight, press a button, and what you see, you get—in full, natural color or in sparkling black-and-white.



TAKE THIS FIRST STEP NOW. Send the coupon today for information on Filmos to be available when our war production permits. Bell & Howell Company, Chicago; New York; Hollywood; Washington, D. C.; London.

There's a Filmo Camera Exactly Suited to You

Shown here is the improved Filmo "Sportster," an 8mm all-purpose home movie camera.Mr. McCarey's camera is a Filmo Auto Load, which uses preloaded 16mm. film magazines.



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SINCE 1907 THE LARGEST MANUFACTURER OF PRECISION EQUIPMENT FOR MOTION PICTURE STUDIOS OF HOLLYWOOD AND THE WORLD

J.&J. JOB IDEA WORKS

The 750 employees of the Gas M Division of Johnson & Johnson in C cago who were notified on Aug. 15 they were without jobs (BW-Aug. '45,p94) had by this week recent nearly 1,400 job offers as a result their employer's efforts.

Johnson & Johnson mailed a chure and placed display ads in le newspapers addressed to "All Chie employers and company executives of cerned with making profits."]. persuasive message pointed out th was forced to lay off employees were the "cream of the crop" in local labor market. It noted that t employees have been awarded Army-Navy "E's" for outstanding duction achievement; that their to over record was only 5.61%; that the absentee rate ran at the well-below-pr age rate of 4.37%; that they have unusual safety record; and that "the ficiency of their work has enabled company to make gas masks at a lor cost than any other American manus turer."

J.&J.'s blanket recommendation its 750 employees has been effect enough to get each one of them a job offers.

SPAT AT WILLOW RUN

A jurisdictional fight between AF building tradesmen and maintena workers in C.I.O.'s United Auto Wa ers flared last week at the Willow R plant, formerly occupied by the Follow R Motor Co. for its bomber producti

It was the first instance of jurisd tional fighting in the Detroit area sit the agreement between the two unit in July (BW-Jul.7'45,p106). Un this plan all jurisdictional outbreaks the reconversion program are to be ferred to a carefully planned adjudition machinery set up by the two itions.

Ed Thal, secretary of the Deb Building Trades Council, said that I C.I.O. maintenance workers chased A.F.L. men from the plant. They we engaged in dismantling machine Brendan Sexton, president of U.A. Local 50, denied that there had be any violence.

The dispute is over which union a engage in tasks of machinery-instation and removal. The question is ing argued in a series of conferences

BUSINESS WEEK . Sept. 1,

E 111

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THE INTERNATIONAL OUTLOOK (Continued)

BUSINESS WEEK SEPTEMBER 1, 1945 America recently. Both Penguin Books, Inc., and Pocket Books, Inc., have recently surveyed the market. This month Bernard G. Davis of Ziff-Davis Publishing Co. spent two weeks in Buenos Aires talking book-translation rights and Spanish magazine publishing possibilities.

If the Camara decree-law is approved, it would not only wreck these plans but also set up a pattern of interference with foreign enterprise that might extend beyond Argentina to other promising trade areas in Latin America.

Because the Foreign Economic Administration, in its buying through Metals Reserve Co., long ago put foreign contracts on a month-to-month basis, tapering off of overseas metal buying won't be much of a problem.

So far as concerns Bolivia, where a stoppage of tin purchases would seriously hurt the economy, continuing high demand for the metal will probably avert trouble. Eventually, adjustment will have to be made to bring Bolivian prices into line with world prices, probably as soon as Far Eastern sources become available.

Likewise, arrangements will have to be made to stockpile Chilean copper—either here on a government basis, or there on a private or government basis—until an anticipated temporary lag in demand is succeeded by increased sales as world markets reopen (BW—Aug.25'45,p10).

So far as other foreign critical materials are concerned, some marginal producers have already been cut off from U. S. government wartime bonuses. The remainder face the difficult task of bringing war-inflated prices into line with what private buyers here and elsewhere will pay.

London reports that the Labor government is seriously considering reopening discussions with Moscow on a long-term credit to the Soviet Union for purchase of British industrial equipment. Churchill's coalition government turned thumbs down on this project months ago.

Don't overlook the possibility that, if Britain is unable to obtain favorable credit arrangements in the United States, London may consider it necessary to hold rigidly to the sterling bloc system (BW—Jul.7'45,p113) and try to reach a barter trading agreement with the U.S.S.R.—an agreement which would cover most of continental Europe.

The outcome of impending talks between Generalissimo Chiang Kai-shek and Mao Tse-tung, delegate from Communist China, will be a clew to the meaning of the Sino-Soviet pacts announced earlier this week.

A settlement of differences between Chungking and the Communists may mean (1) that Moscow's apparent abandonment of the Communists was accompanied by instructions that they collaborate with Chiang, or (2) that Chungking agreed to arrive at terms acceptable to the Communists in order to obtain the return of Manchuria and a promise from Moscow not to interfere in China's internal affairs.

If the Communists agree to disband their armies—or turn them over to Chungking control—it will indicate Moscow's abandonment of its support of their efforts to obtain autonomy in a federative China.

The U. S., through our ambassador, Maj. Gen. Patrick J. Hurley, has been using its good offices to bring Chungking and the Communists together. If the outcome is a liberalized coalition government, more rapid reconstruction—and increased opportunities for investment and trade—will result.

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USINESS ABROAD

way From Lend-Lease

Though one chapter has closed, new formulas (already ovided for) enable recipient nations to obtain continued flow of ods. Aid extended may be U. S. trump at world trade conference.

Announcement last week of the ternation of lend-lease closed a unique pter in the history of American econic relations with the rest of the dd. In four years, the United States poured more than \$40,000,000,000 munitions, machinery, foods, and vices into the hands of Allied armies civilian workers to speed a military

bying Since V-E Day—Lend-lease is ally dead. It had been dying since E Day. Victory in Europe brought up cutbacks in shipments and all proment programs were immediately ught under study with a view to reing further commitments.

Nevertheless, legal burial of lendse has not fully ended its operations. o T. Crowley, Foreign Economic Adnistrator, immediately offered reient countries alternative means of aining a continued flow of goods. And, the three latest-comers to the

d-lease fold-France, Belgium, and

Netherlands-had already made in-

terim arrangements to obtain needed items.

• Russian Aspect—The Soviet Union, which was negotiating a special cashand-credit interim pact as long ago as last February, was cut off from all but a few special categories of military items after V-E Day. Moscow is interested in a long-term loan of substantial size to finance purchases of long-range rehabilitation equipment. This is likely to be available only after special action by Congress, and lengthy discussion of terms. But even pending this, a \$1,000,000,000 slice of the Export-Import Bank kitty is said to be available to the U.S.S.R.

This week negotiations were proceeding satisfactorily with a half-dozen other countries seeking Export-Import Bank loans of varying size, but sufficient in the aggregate nearly to exhaust the recently expanded (from \$700,000,000 to \$3,500,000,000) credit of the bank.

• Britain's Problem-The United Kingdom presents a special case-in both the

nature and the magnitude of its problem (page 111). Lord Keynes, junketing British financial negotiator, is due in Washington this week—not only to discuss lend-lease termination and immediate measures to ameliorate the repercussions, but to confer with the highest American authorities on the involved and delicate aspects of Britain's postwar economic plight.

Britain, too, may be able to squeeze a \$1,000,000,000 loan out of the Export-Import Bank before its funds are fully committed. This would leave prospective loans to principal Allies on this order of magnitude:

 United Kingdom
 \$1,000,000,000

 Soviet Union
 1,000,000,000

 France
 450,000,000

 Belgium
 125,000,000

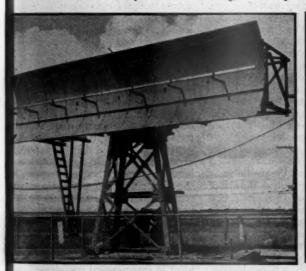
 Netherlands
 115,000,000

But not all lend-lease recipients were similarly affected by the cut-off.

• On the Comfortable Side—Most Latin-American countries (and a few others, such as Iran) salted away comfortable dollar balances (and other foreign exchange credits) during the war, and will be in no immediate need of financial aid on a scale that cannot be met by private interests.

When President Truman called for the end of lend-lease, in accordance with the law and his promise to Congress, about \$2,000,000,000 in lend-lease funds were tied up in contracts for goods and about \$1,500,000,000 either in overseas stockpiles, or in the supply pipelines.

• Crowley's Program-However, to provide aid to liberated countries, to liqui-



DMMERCIAL RADAR FOR CANADA

nada this week appeared to have stolen a march on the nited States in the application of radar (BW—Aug.18 ,p63) to commercial airline operation. Trans-Canada Lines has borrowed radar equipment from the Royal nadian Air Force and installed it at Winnipeg. It is



being used to detect aircraft at distances up to 80 miles, guide them to the field, and control traffic in the landing area. Radar antenna (left) is used in locating plane, whose position is recorded on "scope" (right). In the U. S., the Civil Aeronautics Administration obtained ten carloads of equipment several months ago to begin experimental work, with no results as yet announced.



COCOON HARVEST FOR ITALY'S SILK LOOMS

A couple of British fliers lend a hand in the cocoon harvest, to speed Italy's silk industry back to its prewar importance. Whether the silk is exported or turned into finery in Italian mills, its production provides employment and its sales abroad will help to pay for badly needed imports.

date some of the lend-lease stockpiles, and to cushion the effect of abrupt contract cancellation in this country, the Foreign Economic Administrator offered a six-point program to former lendlease recipients.

In essence, it provided for postponing the final stoppage of exports to lend-lease countries until V-J Day; that the facilities of FEA and the War Shipping Administration be made available (for 90 and 30 days, respectively) to procure and transport goods until buying and shipping facilities of their own are set up by our Allies; and for continued procurement for cash, or credit.

• Decline Had Set In—Actually, the decline in lend-lease had set in much earlier. The rate of export in the first quarter of this year was only about two-thirds the rate of a year earlier. And, with munitions regularly comprising about 50% of lend-lease transfers, the decline was bound to be sharpened by the end of hostilities in Europe.

Britain, for instance, received over \$5,000,000,000 in lend-lease last year. In the year following V-E Day, the anticipated length of the Pacific war, lend-lease was to involve only \$2,200,000,000, of which food was expected to account for 40% to 50%.

• In a Different Form—As soon as the end of the war was in sight, new lend-lease pacts were written in a different form, and old pacts were rewritten, to prepare for the expected cut-off of war aid. France, Belgium, and the Nether-

lands-of all the countries invited to take advantage of the new formula (including Britain and Russia)-were the only nations fully prepared when the President's announcement came.

In the last annual renewal of the Lend-Lease Act, provision was made in section 3-c for writing lend-lease contracts to make them convertible to cash and credit terms. Thus, when France signed up for lend-lease on Feb. 28, 1945, it signed a Master Lend-Lease Agreement, a Reciprocal Aid Agreement, and an agreement under section 3-c of the Lend-Lease Act.

• What France Gets-Under the first,

• What France Gets—Under the first, similar to those signed with Britain, China, and the Soviet Union, France obtained aid for its armies.

Under the second, arrangements were made to credit France with reciprocal aid to Allied armies on the continent.

Under the third agreement, the first of its kind, France obtained war production materials and supplies worth \$2,575,000,000. Of this total, \$1,675,000,000 consisted of raw materials for war use and essential civilian supply, food, petroleum supplies, short-life manufacturing equipment for war production, funds for ship chartering.

• Capital Goods—The remaining \$900,-000,000 consisted of long-lived capital goods, deemed essential to the war effort but far outlasting the war emergency including locomotives and freight cars, ships, and machine tools and other industrial equipment. Both types of materials were to supplied under lend-lease until the ward invalidated the act. At that the by the agreement, France is committed to pay for the goods it has contract for or to pay the U.S. for contract thement. The terms differ according the category of goods involved. On the short-lived items, the undelivered pation is to be paid for over 30 years. 2% interest. On the long-lived capit goods, a 20% down payment must made, and the remainder is to be settled over a 30-year period at an identic interest rate.

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• How It Adds Up—This week appeared that France has a lien about \$650,000,000 of undeliven goods available to it under the kn lease pact. Any new purchases wou have to be paid for in cash, or throw an Export-Import Bank loan.

The Netherlands and Belgium, wisimilar pacts (which originally involve \$242,000,000 and \$325,000,000 respetively), were in the same boat, with son contracts outstanding on which the could accept delivery and pay over 30-year period. Both are negotiating fran Export-Import Bank loan.

• An Accounting Requested—So to settlement of lend-lease accounts is a in air. With the end of the act's operations, Washington has requested a accounting from all countries which accived aid, in order to determine he much is recoverable.

Termination of the agreements au matically canceled reciprocal aid. It means that credits for aid to U. S. for abroad can no longer be applied again lend-lease receipts, and hence that f. U. S. must now begin paying cash it maintenance of its overseas forces a establishments in Britain, France, at the Far East.

• Repayment?-Although little has be said on the subject, the possibility cash repayment of lend-lease has no been seriously contemplated. The Ma ter Lend-Lease Agreement, instead, Article VII directed that the condition of settlement should not be such as burden commerce between nations, b should promote mutually advantageo economic relations and the betterme of world-wide economic relations. addition, it provided for internation collaboration to raise world levels of en ployment and production, and efforts to eliminate discriminatory trea ment in international commerce.

It has often been predicted that the will be Washington's weapon at the international conference on world tradescheduled for later this year or early 1946. Recent events would tend to substantiate this view.

 Special Cases—A number of country which received lend-lease under special

Here's where your soldier goes when he comes home from Europe



HERI ARI 22 personnel reception stations in the United States. A be released from service, this is where he gets his discharge sturning soldier is sent to the one nearest his home. If he is to to stay in service, this is where he starts his furlough home.

connel reception stations in the United States. A be released from service, this is where he gets his discharge. If he is

Here's how your soldier goes across America

The little black trains on the map show the trips taken by a typical soldier re-turning from Europe.

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First, there is the short trip (1) from the port at which he landed to a nearby disposition center. Here, he is grouped with other men from the same part of the country and sent (2) to the reception station nearest his home.

If he is discharged, he takes trip (3) home. If he must remain in service, he starts his furlough with trip (3) then, when it is over, takes trip (4) back to the reception station where he is reassigned.

Men redeployed go first to an assembly station (5) for supplemental training, then (6) to their new assignment. Every returning soldier makes at least three trips by train. Men redeployed make at least six trips, maybe more.

That's why the military load on trains before V-J Day was the heaviest in his-tory. Now with over 10,000 men a day landing from Europe, and thousands of veterans returning from the Pacific, the

railroads' job will be greater than ever. And, since most troops making long trips under orders travel in Pullman comfort, you can't count on getting the Pullman space you want exactly when you want it.

But you can count on this: when you do go Pullman, you go the world's safest, most comfortable way of getting there fast.

That will be just as true tomorrow as it is today!

PULLMAN For more than 80 years, the greatest name in passenger transportation

\$ 1948, THE PULLMAN COMPAST



THE Smiths are a great family. Members of it have become famous as doctors, lawyers, merchants and chiefs.

But you wouldn't hire a man just because his name was Smith. You'd still want to know his age, experience and a few other pertinent facts.

The Plastics family is like the Smith family. It has some remarkable members as well as some good, everyday individuals for common, everyday jobs.

To choose the right Plastics for your job, come to an authority who knows the family tree and has the record of its individual members in terms of tested performance.



Plasties Division R ERIE RESISTOR CORP. ERIE, PA.

arrangements without signing the Master Agreement have recently been brought to heel. The list includes Egypt, Turkey, Iran, Iraq, and India-even though some of these countries have actually paid cash for lend-lease goods. Brazil, too, is paying cash, but signed the agreement in 1942. Negotiations with other countries were under way, when the war ended, to widen as far as possible the international application of Article VII.

CANADA

Tax Hopes Slim

Canadian business expects some modification of levies but government warns of need for high level of income.

OTTAWA-Problems of business reconversion and budgetary adjustments necessitated by the end of war loom largest among the items which will confront the new Parliament when it meets next week

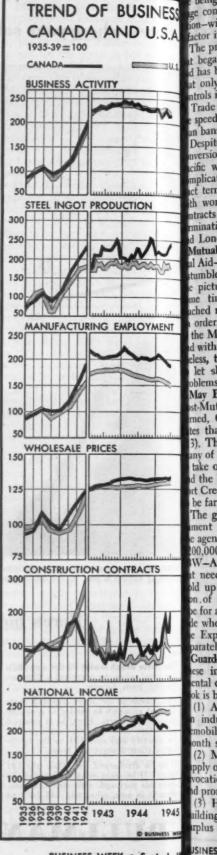
• Tax Revision Expected-When Finance Minister J. L. Ilsley submits his budget-now being rewritten-some modification in taxes will be announced.

While business insists that if tax levies remain high, reconversion will be slowed and the road to full employment and high national income strewn with obstacles, the government is equally insistent upon maintaining a high level of federal revenue with which to finance promised aids to industry and exports, as well as expanded social security meas-

• Disappointment Ahead-Optimistic predictions are for complete removal of the excess-profits tax, substantial lowering of the corporation tax, and moderate reductions in sales and personal income levies.

Ilsley, however, served notice last week in response to proposals by a Canadian labor delegation that income tax exemptions be raised considerably, that the budget will be disappointing in its tax-reduction features. He said the public could not have social security and low taxes at the same time. Although tax reductions were talked about a few months ago-around election time -officials are now realistically pointing to the rising costs of government serv-

• Price, Wage Curbs Stay-On the reconversion front, progress continues. While production controls have been largely lifted, and manpower controls



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being removed in stages, price and ge controls are to stay until compe-ion-with improved supply-becomes factor in limiting prices.

The process of removing bars on outt began long before the war's end, d has been speeded up. Net result is at only 64 of some 300 production ntrols imposed by the Wartime Prices Trade Board remain. Most of these speed-up orders on essentials rather an bans on nonessentials.

Despite the long headstart on renversion planning, the end of the cific war has not been without its mplications. For example, the conth work on some U.S. and British ntracts continuing in the absence of mination orders from Washington

d London.

MENT

Mutual Aid Continues—Canada's Mu-al Aid—rough equivalent to lend-lease tumbled on without a plan. In fact, e picture may remain confused for me time. The decision has been ached not to halt shipments of goods order, although the clear intention the Mutual Aid Act is that it should d with the close of hostilities. Nevereless, the administration has decided let shipments continue and settle oblems of payment later.

May Boost Export Loans-As far as st-Mutual Aid payments are conmed, Canada's problem again dupli-tes that of the United States (page 3). There is some question whether any of its war customers have the cash take over Mutual Aid commitments, d the lending power of Canada's Exrt Credits Insurance Act now appears be far short of potential needs.

The government intends to ask Parment for a substantial expansion of e agency's lending ability—now set at 200,000,000 and fully committed W—Aug.4'45,p116)—in order to help it needy European countries and to old up Canadian exports. The queson of financial aid to Britain is also e for action, and Parliament must dede whether it is to be handled under e Export Credits Insurance Act or parately.

Guarded Confidence-In the midst, of ese imponderables, guarded govern-ental confidence in the economic outok is based on several factors:

(1) A large backlog of jobs in civilindustry, despite war layoffs and mobilization at the rate of 33,000 a onth since June.

(2) Measurable improvement in the pply of raw materials, which has made vocation of materials controls easier ad promises to speed reconversion.

(3) Heavy demand for industrial hilding space, which so far outstrips iplus war plant offerings.

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NOW MAKING WAR PRODUCTS

DIVIDEND ON COMMON STOCK

The directors of Chrysler Corporation have declared a dividend of seventy-five cents (\$.75) per share on the outstanding common stock, payable September 14, 1945, to stockholders of record at the close of business August 20, 1945.

B. E. HUTCHINSON Chairman, Finance Committee

MERIAM MANOMETERS

e These instruments are used extensively to measure accurately pressures, vacuums, and differential pressures of liquids and gases.

They have sturdy housings and Pyrex glass tubes—no levers, gears, diaphragms—and meet all requirements of industry for a permanently accurate indicating instrument.

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SALES EDUCATOR AVAILABLE

Specialist in training salesmen. Skilled in planning and executing educational programs for beginners and for experienced salesmen, in retail and in specialty fields. Years of successful selling experience, combined with practical teaching of salesmen, enables conducting realistic courses that produce results. Adept in developing sales material and teachers. Knows how to put life into sales meetings and bulletins. Organizer, speaker, writer. Sound academic background. Veteran of World War I.

Box 459, Business Week. 68 Post Street, San Francisco 4, California

BRANCH MANAGER

An internationally known manufacturer of pumps wants a New York City branch manager. The man should be 40 to 50 years old and must have wide acquaintance among pump buyers in the New York Metropolitan area. Compensation is salary plus share of profits.

This is an important position, carrying substantial income. Please do not reply unless your record proves a thorough knowledge of pumps and you know the market. Attach photograph to your reply.

Box 460, Business Week. 530 North Michigan Ave., Chicago 11, Ill.

THE MARKETS

Last week Wall Street, beginning to recover from the confusion brought on by the sudden ending of the war, finally remembered its earlier "peace is bullish" verdicts (BW—Aug.18'45,p79). The Street decided to take some time off to find out what Washington officials and industry actually had been engaged in doing on the momentous question of reconversion.

• Burst of Enthusiasm—What investors and traders saw, on the whole, was to their liking. And last Thursday, despite considerable disappointment over the pricing policies OPA intends to follow until reconversion is completed, they indulged in their first burst of peacetime enthusiasm by staging one of the most bullish daily trading sessions recorded at the New York Stock Exchange in some five years.

Last Thursday's enthusiasm has been followed by a string of similar exhibitions. By Wednesday of this week the Dow-Jones industrial stock price average not only had recovered all its losses in recent weeks but also had risen to a succession of new peaks not touched since September, 1937.

• New Money in Market—Wall Street is quite aware that short covering, as well as new money entering the market, has been responsible for the postwar period's first important stock market upsurge. Nonetheless, particularly encouraging to the Street has been the showing of the better grade and blue chip issues in the current upswing. For the first time they, rather than the low-priced group, have been leading the advance. Brokers report much of the buying has represented long-term investment of so-called "smart money."

(FINANCE SECTION-PAGE 76

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Similarly encouraging, Wall Street, bullish elements report, is the breadth of the advance thus far scored. Buying has been widespread, not concentrated in relatively few issues, and especially noticeable have been the gains recorded in the steel, automobile, amusement, mailorder, department store, rubber, and chemical sections of the stock list.

Some Reservations—Rails have not

been neglected in the move towards higher prices. Unlike previous occasions earlier this year, however, they have definitely lagged behind industrials, and it is clear that, despite the tremendous improvement which that industry registered during the war, many investors and traders still have some reservations concerning the railroads' outlook for peacetime prosperity.

time prosperity.

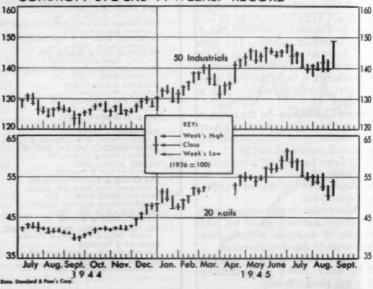
Wall Street hasn't permitted the recent rise to blind it to the fact that the coast is not yet entirely clear and that the market must demonstrate its ability to absorb a good deal of profit-taking selling. Also, many brokers expect that the rapidity and extent of the current recover may soon bring in its train a shap "technical reaction."

Security Price Averages

			-	- 1
Th We		Week Ago	Month Ago	Year Ago
Stocks				
Industrial14	8.9	139.9	140.8	1265
Railroad 5	3.9	50.5	55.1	41.2
Utility 70	0.2	68.5	70.7	55.9
Bonds				
Industrial12	1.2	121.7	122.1	120.9
Railroad11	4.1	113.7	115.0	106.9
Utility11	5.5	115.4	115.8	116.

Data: Standard & Poor's Corp.

COMMON STOCKS-A WEEKLY RECORD



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Whenever Business Week's front er carries a picture of a railroad n, readers besiege the editor with uests for copies of the original pho-raph. Whenever its news-reports to the sum of its readers' knowledge railroad lore, facts, and figures, sub-uent letters attest to the wide interin such information. Whenever it kes even a minor technical error in senting abstruse railroading data, the ters are likely to reach flood tide. Now we stand corrected of such an

or by friends who share a love of railroads that has survived all comtition and all the doubts as to whether home-front war was ever really as ugh as the purveyors of our rail travel metimes made it seem.

g selling The Denver & Rio Grande Western's the raw tunnel, 10.424 feet the raw tunnel, 10,424 feet up, on top of recovery messee Pass in Colorado, is not "the a sharp thest bit of standard-gage railroad the world" (BW-Jul.14'45,p36). eaning from protests of that statent the clearest compilation of rele-nt facts, we take from Donald Ashton, cutive assistant, Burlington Lines, following:

"It is very probably the highest ele-ion reached by a standard-gage steam lroad main line in the U.S. The highaltitude now reached by a standarde steam railroad ["main line" omit-here] is the Colorado & Southern's ,319 feet at Climax, Col. There's a the Denver & Rio Grande Western Ibex, Colo.-11,522 feet above sea el, but this line has recently been andoned."

For the benefit of collectors of such lroading curiosa, Mr. Ashton reminds that the Assn. of American Railroads, ansportation Bldg., Washington 6, C., publishes without charge a handme "Quiz on Railroads and Rail-ading" that contains the answers to 0 questions about what's biggest, agest, highest, fastest, and everything e in railroading. But, as reference to siness Week's copy of this invaluable itorial aid has shown, even the A.A.R. s trouble keeping up to date. Hower, a new edition of the Quiz, now in e works, will take care of the abandon-ent of that trackage at Ibex and of the cent broad-gaging of the tracks at

Incidentally, it will also probably ow that the highest standard-gage t of all is at 14,109 feet on the Maniu & Pike's Peak Railway which, except in winter months, will take you up you-know-where or bust. But-sticklers please note-that's a standard-gage cogwheel line, not steam, not classifiable as a standard railroad.

"Has Us Worried"

Carrying forward the discussion of Washington's ideas on depreciation which has brought frequent letters to this department, R. N. Stearns, vicepresident and treasurer of Stearns Magnetic Mfg. Co. of Milwaukee, writes:

Industrial readers everywhere are intensely interested in the problem of machinery and equipment for postwar production. In this connection, the attitude of government officials on the subject of depreciation and obsolescence has us worried.

It so happens that we manufacture a line of magnetic equipment such as separators, pulleys, drums, magnets, clutches, brakes, etc. While these are not necessarily machine tools, they are considered capital investment products.

It is our opinion that the purchase and installation of new capital investment equipment will continue to be substantially curtailed in the postwar era, until the Treasury adopts a more liberal and constructive viewpoint on depreciation and obsolescence.

We believe that the government should either permit the immediate writzoff of any capital equipment purchased, or should allow the purchaser to write it off in whatever manner is preferable for absorbing its cost, over any period desired by the purchaser

This policy, in our opinion, would sub-stantially increase the purchase of new, efficient, modern machinery; would lower costs of production, making the products of high-cost American labor competitive with low-labor-cost foreign products, and increase the hiring of labor in the capital equipment industry.

The government would give up very little in actual tax loss, since the sooner the new equipment is written off, the greater the profit and tax in the final analysis.

Bombastic?

Local patriotism in the new city of Oak Ridge, prodigy of the atomic bomb, site of the freshly famed Manhattan Project (BW-Aug.11'45,p17), runs high and expresses itself succinctly. From that point comes an irresistible reply to Business Week's recent noncommittal publication of the picture of a Knoxville realtor's subdivision sign "Knoxville-The Capitol City of Atomic Energy." The communication says simply, "Knoxville, Tenn., Is No More ply, "Knoxville, Tenn., Is No More The Capitol of Atomic Energy Than A Pig Is. P.S.-Oak Ridge Is 18 Miles From Knoxville."



LATCHING AEROTROLS

again prove the versatility of the Aerotrol "400" Series relays

Latching Aerotrols are the newest development in the Cook line of Aerotrol relays. Individual Aerotrols, since their development to meet modern aircraft requirements, have found many other applications in the electrical and electronic industry due to their easy adaptability in meeting demands for a small, rugged and accurate relay.

Among these applications have been many requests to Cook engineers for latching type Aerotrols. These requests have since been fulfilled with relays of the type illustrated above. This design now makes it possible to combine any two Aerotrols of similar or different types into a latching relay that presents all of the outstanding features of each Aerotrol. Combinations of two single pile-up relays, two double pile-up relays, a single and a double pile-up relay or Cook heavy current Aerotrols are now available.

All of the same outstanding features remain; made of the finest relay materials; craftsmanship in design and construction; spread terminals for easy wiring; space saving; and the numerous other features which are more fully described in the new Aerotrol booklet now on the press. A request on your letterhead will bring one of these booklets to you upon completion.

A Product of the Magnetronic Division of



CHICAGO 14, ILLINOIS

LEND-LEASE-THE FALSE AND THE REAL ISSUE

This country's announcement last week of the termination of lend-lease—and particularly the British reaction, as expressed by Winston Churchill's exclamation at "such a rough and harsh manner"—has brought us sharply face to face with one of the basic economic problems of the postwar world.

• There could have been no real question as to when lend-lease was to end. Statements by members of the executive branch had indicated several times within the last year that lend-lease was to end when the war ended. The latest came when President Truman said on signing the lend-lease extension act: "Lend-lease will be carried on until the unconditional surrender or complete defeat of Germany and Japan." That understanding was quite explicit in all the testimony and debate in Congress.

What is, perhaps, even more significant is when Senator Robert A. Taft proposed to amend that extension act to forbid even the sale of lend-lease stocks left over when the war ended; that amendment failed of success by nothing more than a tie vote in the Senate. It has always been quite clear under the lend-lease agreements that title to any unused stocks or output of goods was

to revert to the U.S. upon the war's end.

Prime Minister Attlee has himself remarked: "We had not anticipated that operations under the Lend-Lease Act would continue for any length of time after the defeat of Japan, but. . ." But what? Is it that the British will need to rush the negotiations of a new transition agreement with this country now that the war has ended unexpectedly early? If it is this that is causing the disturbance, perhaps both governments are at fault for not having cleared the ground previously, but certainly the primary responsibility for that rests with that party which is being embarrassed by the lack of any new arrangement now. For there is bound to be suspicion here that the matter was not brought up earlier in the hope that we would hold off termination pending new discussions.

• Nor, in the lend-lease termination, could there have been any question of cutting off the actual flow of supplies to Britain as of the official V-J Day. We have offered Britain the chance to purchase on cash or credit her share of lend-lease goods now left over. There are over \$1,500,000,000 of U. S.-owned nonmunitions goods in inventory here or overseas, and well over \$2,000,000,000 more of such materials on order or in production. Britain could get, at very least, \$1,000,000,000 of these essential supplies. It was allocated around \$2,200,000,000 of lend-lease aid for the year after V-E Day, some of which was still munitions. So Britain can be assured a minimum of six months' supplies for its civil economy—which is hardly a cut-off of physical shipments.

Britain does face a problem—which must in part by our problem—but that problem does not lie in the precise timing of the end of lend-lease. More broadly, it is how such countries as Britain, whose world financial and emposition has been greatly weakened by the way (BW—Dec.25'43,p112), can restore themselves to bal ance within a framework of free international trade and investment.

The British side of that problem was epitomized in Attlee's estimate that, just before the Japanese surrender Britain was importing "essential food and other supplies," quite apart from munitions, at the rate of \$8,000, 000,000 (at most one-fourth from us) but was exporting to a total of only \$3,200,000,000.

• Even after British industry reconverts and resumes in exports, and even after Britain economizes on was swollen imports of such products as petroleum, a deficit of international outgo over income will remain. On the average, it may be running on the order of \$1,000,000,000 a year until Britain achieves something like a 50% expansion of exports over prewar levels, which may take a considerable period—say, five years. This export rise is needed because the war has destroyed so much of Britain's income from sources other than exports—man ships sunk, foreign properties devastated, and investments abroad sold off and blocked sterling debts accumulated in order to purchase imports during the war (when exports had to be curtailed).

Of course, Britain can limit her unfavorable postwa trade balance by resort to import quotas, exchange controls, bilateral trade agreements, and similar devices. That is what makes London's problem our problem. And that problem then begins to involve Bretton Woods, the stelling bloc, postwar shipping, cartels and trade practices.

rubber and tin, and a host of other matters.

• It is because such large, long-range world issue are involved—it might possibly be argued—that there has been a delay in discussions of new arrangements for the transition period to replace lend-lease. But it is precisely because of the vastness of this over-all postwar problem that the upset about the precise time of the ending of lend-lease seems out of all perspective. That issue is minuscule by comparison. However, there is enough disposition on both sides of the ocean not to face the large issues—as evidenced by that tie Senate vote a few months ago—for a major melee over a minor matter to be of real damage.

Lord Keynes' delegation is to arrive here this week for new conversations with American officials, and it will be best for all sides if Britain's real problems can now be presented openly and honestly, in an atmosphere cleared of gratuitous resentments and recriminations over trivia part be precise t is how and economic the war to ball rade and

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